| Name: | Date: | 3 |
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## Landform Processes

#### Landform Processes

A landform form is any characteristic that describes the earth's surface. Examples include valleys, mountains, hills, oceans and plains. Landforms are constantly changing over time. Scientists estimate through dating of rocks that the earth is 4.54 billion years old. Many of the processes that affect landform changes, happen so slowly that they cannot be noticed from one year to the next but over time the changes are significant. For instance, Niagara Falls is currently receding at a rate of 30 cm per year. Up until 1942 it was receding at a rate of 1.5 meters per year. Niagara Falls has receded 11.4 kilometers in the last 12,300 years forming the Niagara gorge.

landf earth has t

# Preview of 30 pages from this product that contains 77 pages total.

#### Tectorie i iaces

The earth can be compared to an egg. It is composed of 3 main parts. The core (inner and outer), which is like the egg yolk, the mantle, the egg white and a thin shell called the crust. The earth's crust has cracks and the pieces of crust surrounding the earth are called tectonic plates. Some of the plates are under continents and are from 30 to 150 kilometers thick.

Other plates are located under oceans and are 5 to 15 kilometers thick.

The mantle is made of thick molten rock that moves slowly in currents. This movement within the mantle causes the plates of the earth's crust to move very slowly. The plates move in different directions. Some move away from each other; some plates move towards each other causing one plate to slip under another plate. This is happening now off the west coast of United States where the small Juan de Fuca Plate is slipping under the larger North American Plate.

| F   |       | 4        |
|---|-------|----------|
| Landform Processes - Questi   | - 200 |          |
| True or False Circle whether the statement is true or fa                              | alse  |          |
| Mountains, hills and skyscrapers are examples of landforms.                           | True  | False    |
| 2. Landforms are characteristics of the earth surface                                 | True  | False    |
| 3. Landforms stay the same forever.   | True  | False    |
| Weathering erosion, volcanos and earthquakes are all processes that affect landforms. | True  | False    |
| 5. Tectoni of the earths mantle.  | True  | False    |
| 2) In what ways does flowing water affect landform                                    |       | <u> </u> |
|   |       |          |

| Name: | Date: | 5 |
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## Tectonic Plates

#### **Tectonic Plates**

The earth's crust is made up of 7 huge tectonic plates as large as continents and several smaller plates. These plates roughly fit together like a jigsaw puzzle that covers the entire surface of the earth. The edges of the plates where they meet other plates are called the plate boundaries. The Tectonic plates each move about 6 inches per year. We don't notice this movement but over

millions of whe continents have moved great distances.

#### 

Volcas of near plate boundaries because molten rocurron he th-called magma-can travel upward at the section between plates causing a volcanic erupt.



- Convergent Boundaries- where two plants oget When plates push together this can cause the earth to crumple and push up ming a stant. The Himalayas were formed in this way. When plates move towards there is no perplate will slip below the other plate. This is called subduction. Areas the area gent plate boundaries are often areas where mountains and volcanoe and earthquake activity. The Mariana Trench is the deepest part of the order of the massive and heavy Pacific Plate, being subducted or sinking under the small lighter, Philippine Plate.
- Divergent Boundaries- where two plates are pushed apart. Magma breaks through the earth's
  crust at the divergent boundaries and forms a mountain ridge. An example of this is the Mid
  Atlantic Ridge that is an underwater mountain range formed between two divergent tectonic
  plates. Earthquakes are common along divergent boundaries.
- Transform Boundaries- where two plates slide past each other, horizontally. The energy
  caused by this movement is released in the form of earthquakes. A well-known transform
  plate boundary is the San Andreas Fault, which causes many of California's earthquakes.

| Name: Date:   |            | 6     |
|---|------------|-------|
| Tectonic Plates - Question  | <b>S</b> — |       |
| True or False Circle whether the statement is true or false   |            |       |
| 1. A convergent boundary is when 2 tectonic plates are pushed apart   | True       | False |
| 2. Tectonic plates move about 6 inches per year   | True       | False |
| 3. Tectonic plate boundaries are where volcanoes and earthquakes happen   | True       | False |
| 4. The San Fault is located at a divergent boundary   | True       | False |
| 5. The Ma formed by subduction  | True       | False |
| Questions Use information from the  | er_        |       |
| Name 3 types of landforms created by the movement of the plant of |            |       |
| 2. How are volcanoes formed?  |            |       |
| 2 <del></del>   |            |       |

| Name  | Date: | 9 |
|-------|-------|---|
| Name: | Date; |   |



#### Volcanoes

Volcanos are landforms that are made when molten magma from the earth's mantle layer erupts through a crack in the earth's crust. When magma breaks through the earth's crust it is called lava. The cracks in the earth's crust occur when tectonic plates collide. The ocean plate is forced into the hot magma when it is pushed beneath the continental plate, and the pressure pushes the magma upward causing fiery eruptions of molten rock and lava. Volcanoes usually occur at the edge of tectonic plate.

shores, n, Indo e Philippines. There are more than 500 active volcanoes in the world. Three qua

#### 3 Major Types of Vo

#### Shield Volcanoes

Shield Volcanoes are volcanoes for om lava. The lava spreads from the mouth of the volcano and can travel for magently. Shield volcanoes are very wide.

#### Stratovolcanoes

Stratovolcanoes are sometimes called composite volcanoes. Some are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall.

#### Cinder Cones

Are volcanoes formed by short eruptions out of a single vent at the top. Cinder Cone volcanoes do not usually get higher than 400 meters tall.

#### Massive Volcanoes

The largest volcano on earth is Mauna Loa in Hawaii. The tallest volcano is Mauna Kea which is also in Hawaii. Both are shield volcanoes that have formed on the ocean floor. If you measured Mauna Kea from the ocean floor to its peak it would be taller than Mount Everest.

| Name:                             | Date:  |        | 10    |
|-----------------------------------|--|--------|-------|
| True or False                     | Circle whether the statement is true or fals         | 0      |       |
| C S                               |  | T      |       |
| -8                                | rm at tectonic plate edges                           | True   | False |
| 2) The Pacific Ring of            | f Fire has over 250 volcanoes                        | True   | False |
| 3) Volcanoes only oc              | cur on land  | True   | False |
| 4) Volcanoe on't c                | ause much damage because people don't live near them | True   | False |
| 5) Mauna                          | world's tallest volcano                              | True   | False |
|                                   |  |        |       |
| Questions  1) What are the 3 type |  | answer | >     |
| 2) What is the differen           | nce between magma and lava?                          |        |       |

| Name: | Date: | 11 |
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# Hountains and the Water Cycle

#### Mountains and the Water Cycle

Fold mountains form along plate boundaries often along the borders of continents. In North America and South America, mountain ranges run the entire western length of both continents. Another fold mountain range runs across Europe and Asia. These fold mountain ranges are mode of sedimentary rock. The mountains are the source of almost 80% of the world's free through melting ice and snow and mountain rains. This water running down the opportunities for hydro power generation.

Water evaporates from oceans and form clouds which are blown inland. This happens along the west coast of North and with America. When the clouds reach the range the clouds rise and the water altitude to example water vapour in the

rain or snow.

The mountains hold a lot of this precipitation on their froz and an important source from mountain lakes and streams. Mountains are an important source from

The windward side of the mountain often has thick vegetation because numid conditions and plentiful precipitation. This vegetation also holds water. Mountains streams carry water back down the mountain to where it is used by people, consumed by plants and trees and where some makes its way back to the ocean where it started, to begin its journey through the water cycle again. Mountains play an important part in the water cycle.

The other side of the mountain called the leeward side is often dry with less vegetation because the clouds release all their rain on the windward side. Because of climate change mountain glaciers and ice caps are melting. This threatens the water supply for people who rely on this source for fresh drinking water.

| Name:  |  | 4500      | 12       |
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|  |  | CHOIL     |          |
| True or False  | Circle whether the statement is true or false    |           |          |
| 1. Mountains have a windward an                      | id a leeward side                                | True      | False    |
| 2. Mountains provide and store a                     | approximately 80% of the world's fresh water.    | True      | False    |
| 3. Because mountains are mostly                      | y made of rock, they do not have much vegetation | True      | False    |
| The water vapour in clouds co cooler at high studes. | ondenses as the clouds rise because the air is   | True      | False    |
| 5. Global w a a a g mo                               | ountain ice to melt.                             | True      | False    |
| 2. Why do mountain ranges form                       |  |           | <b>-</b> |
| Making Connections                                   | What does this reading remind you of in          | your life | e?       |

| Name: | Date: | 15 |
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#### What is a Valley?

A Valley is a landform that is a long low area between two mountains or hills. Valleys are one of the most common landforms. Often valleys have a river or stream running their length. Valleys can be V-shaped, U-shaped or have a flat bottom.

#### How are Val Formed?

Valleys are typical he les because they are carved out by glacier aciers schunks of hard ice that pick up rocks as they down to f a mountain, gradually grinding down as an acceptance of the shaped valley.



At lower altitudes valle are early by the eroding action of water from streams and rivers and from wind. The pring over the earth erodes a trail that makes a river. As the water runs over the earth erodes arries expenses with it and gradually carves a deeper and deeper river bed. As the river carve per into a und the sides of the river erode into the river and are carried away with the carving of river banks that make a V-shaped river valley over the eroding action of water from streams and rivers and gradually carving of river banks that make a V-shaped river valley over the eroding action of water from streams and rivers and from wind.

The third way valleys are formed is through tectonic action. Te divergent boundaries and pull apart Fault Block mountains are formed. This place of rock crack at fault lines. Some blocks are forced up creating mountains and some as fall down creating the valley.

When valleys are first formed, they tend to be narrow but the older they are the wider the valley usually gets because rain, wind, frost and ice wear the sides of the valley down. The rate at which the valley evolves and widens depends on whether it is formed through hard rock, softer rock or earth.

#### Valleys and People

Valleys are a good place for people to live because they usually have a river. The river provides, fresh water, fish, transportation and good soil. Valleys also provide shelter from winds and smooth terrain on which to settle.

Name: 16 Date: Valleys - Questions Visualizing Draw what you were picturing in your head while you were reading om the text made you picture that in your head? tion from the text to support your answer Questions 1) What is a valley? When 2. How are valleys formed? Explain two ways? True or False Circle whether the statement is true or false False 1. Erosion has helped create valleys. True False 2. Some valleys are formed by avalanches. True 3. Valleys are good places for people to live. True False False 4. Valleys often get wider as they age. True V-shaped valleys are most often found at high altitudes. True False

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|-----------|-------------|-------|
| Name:     | Date:       | 21    |

# Controlling Soil Brosion

#### What is Soil Erosion

Soil erosion is the washing or blowing away of the top layer of soil. This happens in three ways through the movement of water, from strong winds and from gravity. Water erosion happens when heavy rain forces soil to travel with the water into streams and eventually larger bodies of water.

Wind erosion is the natural process that moves soil from one location to another by wind power. Strokes can cause a lot of soil particles to lift into the air and cause dust storms. Soil

erosion from gravity happens when farm fields are on a hillside of at least a 25-degree angle and there is little vegetation to hold the soil place. Heavy rainfall can cause the earth to become very hide down the hill.

#### Soil Erosion Hurts Farm

Soil erosion is a serious problem. It is soil is needed for farmers to produce crops. Farmers work very hard to produce so lots rients. Wind and water erosion cause this nutrient rich topsoil to travel to on areas an orte up in the bottom of a body of water. Topsoil is often the most fertile and when a way a sis less productive.

#### **Controlling Soil Erosion**

Soil erosion can be controlled using the following methods:

- Windbreaks A windbreak is a line of plants that are planted to act like the wind. Farmers will use a row of thick bushes next to a field of plants to standard wind from blowing the soil away
- Terracing Terrace farming means the farmer builds "steps" or terraces that are built into the side of a mountain or hill. They do this so that when it rains, the nutrients get washed down to the next level of crops.
- Reforestation Replanting in an area that lost its plants is called reforestation. If a forest burned down, reforestation would mean to replant the trees.

Reforestation stops soil erosion because the roots of plants help make the soil stronger as it pulls the soil together. This makes it harder for the wind and water to move the soil.

| Name:        | Date:  |           | 22    |
|--------------|--|-----------|-------|
|              | Controlling Soil Brosion - Question              | 8         |       |
| True or I    | Circle whether the statement is true or false    |           |       |
| 1) Soil eros | ion means that soil washes or is blown away.     | True      | False |
| 2) Soil eros | sion hurts farmers the most.                     | True      | False |
| 3) Windbre   | aks are steps in the side of a mountain.         | True      | False |
| 4) Reforest  | means you plant trees that were lost.            | True      | False |
| 5) Wind ca   | psion by blowing soil to new locations.          | True      | False |
| Que.         | information from the text to support your answer | er        |       |
| -            | we stop soil erosion?                            |           |       |
| Making       | What does this reading remind you of in          | your life | e? J  |
| (i)          |  |           |       |

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|--------|-------|----|
| Name:  | Date: | 61 |
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#### What is a Glacier?

A glacier is a huge chunk of ice that moves very slowly over land. The largest glacier in the world is Lambert Glacier, which is in Antarctica. It is 100km wide, 400km long, and 2.5km deep! That is 40,000 kilometres squared, which means it is larger than Vancouver Island, which is 31,285 kilometres squared.

Glacie poportant because they give us 75 percent of b water. Today, glaciers cover vorld's total land area.



How Glaciers Form

Glaciers are huge pieces of the live of the spring of the old snow and ice melts during the spring of the old snow and ice each year. Massiv chur of the old snow and ice each year. Massiv chur of the Arman orm, over thousands of years, which are called glaciers. Most of the glacier on the Arman orm, over thousand, but glaciers are found on nearly every continent, even Africa.

#### Glacial Erosion

Glaciers are so large and so heavy that as they move, they wear dealers and changing the shape of mountains. The glaciers act like sands they break down rock. Glaciers erode the underlying rock by abrasion.

#### Glaciers and Climate Change

- One of the biggest causes of the sea level rising is melting glaciers.
- There are a total of 198,000 glaciers worldwide.
- Scientists are tracking the size of 40 glaciers worldwide and have found that since 1980 these
  glaciers have lost the equivalent of 24 meters in height because of melting.
- Most glaciers are shrinking
- In some parts of the world glaciers provide water for human consumption so the loss of glaciers is a serious problem.

| Name:                  | Date:  |                  | 28          |
|------------------------|--|------------------|-------------|
|                        | Glosiers - Questions                         |                  |             |
| True or False          | Circle whether the statement is true         | or false         |             |
| 1. A glacier is a huge | chunk of ice that doesn't move.              | True             | False       |
| 2. A glacier slides ac | cross land and erodes it.                    | True             | False       |
| 3. Glaciers act like s | andpaper that wear down rock.                | True             | False       |
| 4. We don't            | aciers because they only keep our land cold. | True             | False       |
| 5. Glaciers            | 6 percent of the world's fresh water.        | True             | False       |
| Sum                    | mmarize the reading by writing the impor     | tant information | on          |
| Questions              | Use information from the oppor               | answer           |             |
| ) What is a glacier?   |  | 1                | <b>&gt;</b> |
| 2) How does a placier  |  |                  |             |
| c) How does a glacier  | cause erosion?                               |                  |             |

| Name: Date | 31 |
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## Human-Caused Changes to Habitets

#### **Human Impact on Habitats**

As the human population increases, we take over and destroy habitats that plants and animals need to survive. In addition to destroying habitats, we are also moving invasive species into habitats which compete with native species for food and space to grow. Both of these human actions can cause extinction and endangered species. Research has shown that humans have caused 322 different animal species become extinct over the past 500 years. This does not mean we have killed 322 animals. Extra when an entire animal or plant species dies, meaning there are no individual animals are now all extinct.

More recently the desired animals are now all extinct.

#### Endangered Species

An endangered species is a species and or at is at risk of extinction. In Canada, the number of the species endangered. Sea otters whales and wolverines are all considered endangered animals in Canada. The main reason these animals are endangered because of us. Humans destroy habitat and over hunt certain

# Averine

#### s eding t tion.

#### **Human Actions Threatening Wetlands**

Wetlands are very important ecosystems because they provide a home for the ge of living plants and animals. Humans are changing wetlands in the following ways. Fit may pollutants are being added to wetlands. These pollutants are coming from households, businesses, and factories. Pollution can also enter wetlands in the groundwater. When farmers use pesticides, fertilizers and other chemicals, they enter the groundwater and can end up in wetlands. The polluted water is not safe for plants and animals to consume. Secondly, humans change the flow of water in wetlands by rerouting the water to help supply farmers with water for their crops, or to supply people with drinking or to prevent flooding. The changing flow in water affects fish populations greatly. Their ability to lay eggs depends on water flow and they need a constant water flow to migrate during colder seasons.

| Name:  | Date:   |         | 32    |
|--|---|---------|-------|
| Human-C  | cused Changes to Habitats - Qu  | estic   | ees-  |
| True or False  | Circle whether the statement is true or false   |         |       |
| Humans caused an not at risk because w                               | imals to become extinct in the distant past but now species are ve know better.   | True    | False |
| 2. Water pollution do  | oes not affect plants,  | True    | False |
| 3. Over hunting is a p   | problem that threatens certain species.   | True    | False |
| 4. People need   | a living so we should not be concerned about endangering species.   | True    | False |
| 5. Farm  | vildlife species because of their farming practices.  | True    | False |
| 그 집에 가지 않는데 그 사람들은 아이들이 가지 않는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하 | Use information from to some serior | need to | stop  |
| 2. How are wetlands  | being affected by human actions? Explain?   |         |       |

| Name: | Date: | 35 |
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### Human Activities that Affect Water Landforms

#### **Human Activities that Affect Water Landforms**

Humans need water to survive. People use water for drinking, washing, waste disposal, watering crops, generating power, fishing, transportation and recreation. People like to live near water, so they have a convenient source of water for their needs. Because landforms are constantly changing sometimes people live too close to water and they have to build something to make the water flow where they want it to go. For this reason, people build dykes, dams and levees.

A levee is an expension of a wall that is conflooding to the average also are use constructions and the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of the average also are used to average also are use of the average also are used to average also average also average also are used to average also average also average also average also a

ment or a wall that is constructed to keep land that is normally dry from beavy rains, melting snow or storm surges that could cause water ees also are used to control the flow of rivers. They are usually es of a body of water such as a river or lake. A levee built

along the edge of a river keeps the river from overflowing its bank and flooding areas where pole live.

evees prevent erosion from widening the evee causes the river to stay within it is the water deeper and faster ng. Le event rivers from carrying ediment eltar of form. This reduces wetla

#### What is a Dyke?

A dyke is a wall or ridge of raised earth that is constructed which was a flooded. The difference between a dyke and a levee is that a lever of the normally dry from flooding. A dyke keeps land dry that would be weth Dykes and levees have water on one side. When dykes are built it reduces we

#### What is a Dam?

A dam is a structure or barrier across a stream or river that is built to create a reservoir of water used to create access to a regular supply of water, for flood control or to generate hydro electric power. Dams can be small. A farmer may make a dam across a small stream just by dumping a few loads of earth into the stream, to create a pool which can be used by farm animals for drinking water. Dams can also be enormous concrete structures such as the Hoover Dam which is built across the Colorado River in United States.

The Hoover Dam was built to control flooding, provide irrigation water and provide hydroelectric power. The Hoover Dam is a 221 meters tall concrete structure that created Lake Meade as its water reservoir. A dam has water on both sides. When huge dams are built large areas of land are flooded causing people and animals to have to relocate.

| Name: Date:   |           | 36       |
|---|-----------|----------|
| Human Activities that Affect Weter Landforms -  | Gææg;     | ions     |
| True or False Circle whether the statement is true or fals  | se        |          |
| 1. A dam is made of concrete and a levee is made of earth.  | True      | False    |
| 2. Dams, dykes and levees all control flooding.   | True      | False    |
| 3. Dykes can keep land that is below sea level dry.   | True      | False    |
| 4. Levees are built across waterways.   | True      | False    |
| 5. Dams are create hydroelectric power.   | True      | False    |
| Sumummarize the reading by writing the important in   | nformatio | on       |
| Questions  Use information from the approximation of the negative impacts of humans changing from | answer    |          |
| levees, dykes and dams?   |           | <b>)</b> |
| 2) How has the ability to build levees, dams and dykes benefitted humans?                         |           |          |
|   |           |          |

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### Hurricane Katrina

#### Hurricane Katrina

Hurricane Katrina hit the Gulf coast of the United States in 2005. At its strongest it became a category 5 hurricane with 175 mph winds. It killed 1800 people and caused 108 billion dollars in damage when its flood water caused the levees to fail.

New Orleans is located in Louisiana on the Mississippi River Delta.

As the city expanded and needed more land, marshes were drained to make more room to build. This reduced the wetlands and caused the city sink due to subsidence.

the liquid is taken in Normans both the removal of water and oil from the ground caused subsidence. No mans was allowed by lying ground but because of the actions of humans it sank even more, causing in a city to low sea level.

Wetlands and barrier island at under the detailed and det

Humans have made New Orleans more vulnerable to flood man formation of the Mississippi Delta. Deltas are formed from river water care deposits at the mouth of the river, making the water shallow and fertile where we liants grow, and barrier islands form.

People built levees and dams to prevent flooding from rising river water. These changed the flow of the Mississippi and Missouri Rivers that would have brought sediment to the Mississippi Delta which would have caused wetlands to continue to form and replace

New Orleans' levee system

those that were destroyed by flooding. Because the levees reduce the amount of sediment deposited at the Mississippi Delta, wetlands are disappearing at a rate of 60 square kilometers per year. This is causing more severe flooding when there are storms such as Hurricane Katrina.

| Name:                                      | Date:  |          | 38      |
|--|--|----------|---------|
|  | Hurricanc Katrina - Questions  |          |         |
| True or False                              | Circle whether the statement is true or false  |          |         |
| 1. Wetlands and n                          | marshes cause flooding during storms.  | True     | False   |
| 2. Hurricane Katı                          | rina was a category 5 hurricane.   | True     | False   |
|  | ms prevent wetlands from forming because they hold the sediment ally deposit in the river delta. | True     | False   |
| 4. Subsidence earth.                       | when the earth sinks because oil or water is removed from the                                    | True     | False   |
| 5. Levees                                  | e from happening during hurricanes.  | True     | False   |
| Quest. 3  1) What changes to be worse than |  |          | Katrine |
| 2) What are the b                          | benefits of wetlands?  |          |         |
| Making Con                                 | nections What does this reading remind you of in   | your lif | e?      |
| S  |  |          |         |

| Name: | Date: | 39 |
|-------|-------|----|

## Occors Currents

#### Oceans Currents

The earth has five oceans. From largest to smallest, they are the Pacific, the Atlantic, the Indian, the Southern or Antarctic and the Arctic Oceans. Oceans cover 71% of the Earth's surface.

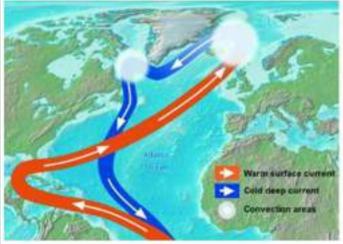
Permanent Streams of water which flow in a definite direction from one part of the ocean to another part are called ocean currents. Each ocean has its own currents, Ocean currents can be thousands of contents long and up to 200 kilometers wide. Ocean current are either warm or cold depending of they originate, from around the equator or from the North or South Pole.

Ocean wind, the earth's rotation and tides.

The also be changing temperature of the water and by the salt content in the water. Warm water are that the salt content in the water. Warm water is pushed the brings with it a warming affect. Rain clouds also form over warm water so will appear to the warm water around the earth it has a major effect on weather. Most of the lid's som ocean water.

The amount of salt in the water also a find create the salt water evaporates or freezes it leaves the salt behind. This increases the salt ent of face water and causes it to sink pushing less salty water to the surface. It create the salt water to the surface of the salt water to the surface.

The Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Gu



Gulf Stream is driven by common that mix up the ocean waters. Cold was brawn down from the Arctic and sinks to the ocean bottom, where it is pulled down toward the equator as lighter, warmer water rises to the ocean's surface. The warmer water is pulled northward to replace the cold water that's been pulled southward. This process distributes heat and rainfall around the world.

In the Northern Hemisphere currents travel in a clockwise rotation and in the Southern Hemisphere currents travel in a counterclockwise rotation.

| Name:   | Date:  |      | 40          |
|---|--|------|-------------|
|   | Occoms Currents - Questions                                      |      |             |
| True or False   | Circle whether the statement is true or false                    |      |             |
| 1. Ocean currents   | change where they flow from year to year.                        | True | False       |
| 2. Ocean currents   | affect weather.  | True | False       |
| 3. Oceans cover 7   | 1% of the earth's surface.                                       | True | False       |
| 4. The Gulf   | is a current in the Pacific Ocean that is 200 kilometres wide.   | True | False       |
| 5. The and  | ean water affects ocean currents.                                | True | False       |
|   |  |      |             |
|   |  |      |             |
| Questions   | Use information from the to                                      |      |             |
| A DESCRIPTION OF THE PROPERTY | Use information from the topology is that affect ocean currents? |      | <b>&gt;</b> |
| 1) What are 3 thing   |  |      | <b>&gt;</b> |

| Name: | Date: | 41 |
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## El Nino and La Nina

#### El Nino and La Nina

Warmer or colder than average ocean temperatures in one part of the world can influence weather around the world. The El Nino Southern Oscillation (ENSO) Cycle is a pattern of weather caused by the Trade Winds that blow in a band near the equator from the west Coast of South America to Asia. The ENSO Cycle is the oscillating or back and forth pattern of warm water and cool water trading places as window across the Pacific Ocean. El Nino means, the boy, in Spanish and it is the warm phase. La Nino the girl, and it is the cold phase.

to west powerms towards Asia and Australia accumulating an ol of urface water in the western Pacific Ocean wing towards Asia and Australia accumulating an ol of urface water in the South America. This creates towards Asia and Australia accumulating an ol of urface water in the

countries affected by these Pacific Its. I would not over warm water.

In some years the Trade Winds are not mig cau warm surface water to drift eastward toward South America. This is called El Nino. El affect the Inter-climate in North America. The warm ocean water attracts the Jetstream of the State of the Inter-climate in North than they normally do. This causes heavy rain and flooding in the south of State of the America weather in Pacific North western United States and Canada. El Nino of the South America side the cool water of the State of the State of the South America side the cool water of the State of th

When the Trade Winds get stronger again, sometimes, they blow harder than usual, causing cool surface water to accumulate along the coast of South America. This cool surface water causes unusually cold conditions in the Pacific Ocean pushing the Jet Stream winds north. This is called La Nina. La Nina causes drought in the southern United States and heavy rain and flooding in the Pacific North West. In Australia La Nina causes more rain in their summer.

An El Nino or La Nina happens every 2 to 7 years. El Nino happens a bit more often than La Nina. El Nino and La Nina cause water shortages, and because of flooding and drought they reduce our ability to grow food.

| Name:     | Date:         | 43    |
|-----------|---------------|-------|
| 1,141,114 | gar 34 5 56 1 | 77.00 |

## Reclemention

#### Land Reclamation

Land reclamation refers to either:

- creating new land from marshes, riverbeds or oceans
- returning land that has been disturbed by mining or use as a landfill and returning it to an improved condition.



#### Polders in the Netherlands

The largest, ele of the first type of land reclamation is the polders in the Netherlands. A polder is a nd that has been reclaimed from a body of water. The Netherlands is a low-lying e. Polders are created by building dykes that hold back the large g the inland section of land with a series of drainage canals. body i The peop have been using windmills to pump water from one section of



gardens and a lake for swimming in summer and skating in winter. The islar

land in the St was built using o create the wast

built on the island. Since the k with removed, and the island has bee

### Reclaiming land used for Natural Gas Wells.

Natural Gas wells are usually used for 20 to 30 years before they are no longer productive. After that companies have the responsibility to restore the land to its condition before the well was opened. The land needs to be reshaped with drainage systems added. The layers of soil that were removed for the well need to be replaced and topped with topsoil and then trees and grass need to be replanted.

The site needs to be monitored to check soil and water quality and to make sure the replanted vegetation is growing. The process is the same when landfills are closed. They need to be returned to their former or an improved condition and they need to be monitored to make sure they are not a source of ground water or air pollution from methane gas.

|                          | Date:  |        | 44          |
|--------------------------|--|--------|-------------|
|                          | Land Reclamation - Questions   |        |             |
| True or F                | Circle whether the statement is true or false  | е      |             |
| 1. Land recla            | amation is taking land back from previous owners.  | True   | False       |
| 2. Land recl<br>of land. | amation can be adding to land area by draining the water off of an area  | True   | False       |
| 3. A land red            | clamation project can add huge areas of land.  | True   | False       |
| 4. When a p              | ie of land is used as a landfill or a mine it cannot be used for anything  | True   | False       |
| 5. Using la              | for landfill sites has a negative impact on the  | True   | False       |
|                          | 3  |        |             |
| Questio                  | ns Use information from the uppor  | answer |             |
| l) What are t            | Use information from the he steps to a land reclamation project after an oil who not the benefits of land reclamation? | answer | <b>&gt;</b> |



| lan      | ne   | _    |     |             |          |    |             | _     | 8 9          | Da   | te: |      |      |      |      |       |      | === |              | 4                    |
|----------|------|------|-----|-------------|----------|----|-------------|-------|--------------|------|-----|------|------|------|------|-------|------|-----|--------------|----------------------|
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| Wo       | ord  | Se   | arc | h           |          |    | Find        | d the | e wo         | ord  | ban | k w  | ord  | s in | the  | pu    | zle  | !   |              | Word Bank            |
| F        | Н    | D    | У   | L           | E        | ٧  | У           | E     | Н            | Т    | G   | Α    | В    | Z    | K    | W     | L    | F   | L            | Human                |
| R        | U    | Α    | 0   | L           | I        | K  | W           | D     | W            | В    | W   | N    | 5    | R    | D    | D     | 0    | D   | W            | Activities           |
| D        | P    | R    | 0   | C           | E        | 5  | 5           | E     | S            | E    | G   | N    | Α    | H    | C    | E     | В    | ٧   | I            | Natural              |
| F        | Н    | L    | Α   | C           | I        | 5  | У           | Н     | P            | Т    | F   | X    | R    | W    | P    | F     | 5    | G   | J            | Processes            |
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| Н        | ٧    | R    | 7   | `           | 1        | A  | R           | U     | т            | Α    | N   | N    | Ν    | У    | R    | J     | E    | C   | C            | Landforms            |
| У        | X,   | J    | 1   | •           | K        |    | 5           | G     | N            | C    | N   | I    | D    | 0    | G    | 0     | E    | F   | 0            | Delta                |
| E        | 4    |      | 5   | -           | 1        |    | , `         | C     | Н            | D    | J   | В    | F    | R    | I    | K     | M    | G   | Т            | Levy                 |
| 5        | E    | 0    | N   | ~           |          | 2  |             | //    |              | E    | N   | D    | У    | Т    | Μ    | W     | Z    | E   | W            | Physical             |
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| W        | G    | K    | G   | I           | E        |    | <i>&gt;</i> |       | _            | K    | К   |      | 0    | Α    | Α    | Т     | Т    | K   | D            | Natural              |
| D        | Q    | U    | F   | L           | C        | N  | 8           | (     | $\checkmark$ | Y    | 1   | -    | ľ    | 8    | 0    | Ν     | X    | Т   | D            | Events               |
| В        | N    | 5    | T   | C           | Н        | I  | 0           | 6     | V            | N    |     | -    |      | ~/   |      | H     | A    | T   | I            | Land                 |
| P        | В    | Α    | Н   | Μ           | C        | Н  | H           | U     | 0            | A    |     | /    | 1    | y    | ١,   | J     | -    | E   | 5            | Reclamation          |
| Т        | ٧    | F    | L   | Q           | P        | G  | P           | R     | W            | У    | A   | C    | 5    |      | F    | 0     | 2    |     | 0            | 11,000,000,000,000   |
| C        | L    | 0    | F   | J           | U        | L  | I           | Α     | V            | N    | Q   | E    |      |      | 5 y_ |       | <    | 2   | H            | Volcanoes            |
| J        | W    | R    | U   | P           | В        | ٧  | L           | У     | Т            | I    | W   | ٧    | В    | 7    |      |       | X    | W   | 7            | Climate              |
| Ε        | ×    | C    | U   | U           | Ν        | C  | Ε           | W     | L            | Н    | Q   | Н    | C    | G    | Н    | \     |      | 7   |              |                      |
| J        | V    | E    | X   | E           | E        | В  | I           | В     | 5            | M    | R   | 0    | F    | D    | N    | A     | Y    | T   |              | V                    |
| F        | Α    | 5    | F   | R           | F        | z  | Ε           | N     | 0            | 0    | U   | G    | Z    | 0    | F    | Ν     | F    | Н   | $\checkmark$ | ces                  |
| or       | ·d 9 | icr  | a m | hle         | _        |    | Ins         | crai  | mbl          | e th | e w | ord  | har  | k w  | ord  | ls fr | om   | abo | ve           | <b>V</b>             |
|          |      |      |     |             | <i>A</i> |    | 9114        | u. u. |              |      |     | -,-  |      |      |      |       |      |     |              | V                    |
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| ICHYSLAP |      |      |     | ONMNETVENIR |          |    |             |       |              |      |     |      |      |      |      |       |      |     |              |                      |
| MUHNA    |      |      |     | UALRNTA     |          |    |             |       |              |      |     |      |      |      |      |       |      |     |              |                      |
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| Name:                                     | <u> </u>                | Date:                                       |  |  |  |  |  |
|---|-------------------------|---|--|--|--|--|--|
| Test - P                                  | hysical Patte           | rns in a Changing World                     |  |  |  |  |  |
| Multiple Choice                           | /6                      |   |  |  |  |  |  |
| 1. When two tecton                        | ic plates push together | 2. These mountains have magma inside        |  |  |  |  |  |
| a) Divergent Bound                        | aries                   | a) Fold Mountains                           |  |  |  |  |  |
| b) Convergent Bour                        | ndaries                 | b) Fault Block Mountains                    |  |  |  |  |  |
| c) Transform Bound                        | daries                  | c) Volcanic Mountains                       |  |  |  |  |  |
| d) All of the above                       |                         | d) All of the above                         |  |  |  |  |  |
| 3. Which is p                             | type of volcano?        | 4. What is the number one cause of erosion? |  |  |  |  |  |
| a) Shiel                                  | 15                      | a) Wind                                     |  |  |  |  |  |
| b) Stratov hoes                           | 0                       | b) Storms                                   |  |  |  |  |  |
| c) Ash Volcano                            | 9 / 5                   | c) Water                                    |  |  |  |  |  |
| d) Cinder Cones Vo                        | ical ( )                | d) Humans                                   |  |  |  |  |  |
| 5. Which of the foll control soil erosion |                         | tion projects?                              |  |  |  |  |  |
| a) Windbreaks                             | · [                     | The   |  |  |  |  |  |
| b) Deltas                                 | b) C)                   |   |  |  |  |  |  |
| c) Terracing                              |                         | 52 8  |  |  |  |  |  |
| d) Reforestation                          |                         | d) Australia                                |  |  |  |  |  |
| Definitions (1 marks                      | each) /3                |   |  |  |  |  |  |
| Term                                      | Defi                    | inition (what does it mea                   |  |  |  |  |  |
| Delta                                     |                         |   |  |  |  |  |  |
| Landforms                                 |                         |   |  |  |  |  |  |
| Land<br>Reclamation                       |                         |   |  |  |  |  |  |

| Short Answer Questions (2 marks each) /6   |             |
|--|-------------|
| 1. What is erosion? Provide at least one example.  |             |
|  |             |
| 2. What is the water cycle? How do mountains affect the water cycle?                                       |             |
|  |             |
| 3. What sland? P mples of wetlands.  |             |
| 25/27  |             |
| Long Answer Questions How have human activities affected our physical Nironny lake to include at least 5 w | vave in     |
| which humans have changed our environment.   | vays III    |
|  | <b>&gt;</b> |
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| Name: | Date: | 3 |
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# Neturel Resources

#### Natural Resources

People need lots of things to live safely and comfortably. They need housing, food, water as basic needs and then there are lots of things, they need to enjoy their lives, such as, their cars, phones, computers and television. All these things require materials to manufacture them, and some require power or fuel to make them work.

Natural resources are things in nature including, air, water, plants, sunlight, soil, rocks, animals and oil. Some natural resources are underground. Natural Resources are useful materials found on our planet that can be accessed when needed. Materials on earth become Natural Resources when humans value them. For instance, minerals have been on earth since its formation, but humans didn't know how to use them at first. Gold, silver, copper and aluminum became Natural Resources when humans discovered how to use them and wanted to find and extract them.

live of most water when

Type Natu

# Preview of 25 pages from this product that contains 62 pages total.

resources, Non-renewable Resources and Flow Resources.

Renewable Resources are resources that are replaced from time to time so we can use them again and again. Examples include water that is recycled through the water cycle, trees and plants that can be replanted and animals that reproduce.

Non-renewable Resources are things that have a finite amount or that cannot be reproduced in our lifetime. Examples include oil and other fossil fuels which take millions of years to form, so when we use them, they will not be replaced in our lifetime for our use. Minerals are another example.

Flow Resources are neither renewable nor non-renewable. Flow resources must be used when and where they occur in nature. Examples include waterfalls that can be used to create hydroelectric power, but, once the water has gone over the falls the ability to use it for power is gone. Sunlight for solar power is another example. When the sun is shining it can power a solar panel but if we don't have a solar panel where the sun is shining the solar energy is not captured and used and it cannot be recaptured.

| True False     Flow resonate non-renewable resources.     True False   | Name:          | Date:   |            | 4     |
|--|----------------|---|------------|-------|
| 1. People can choose not to use natural resources.  2. Natural resources are all around us.  3. Things in nature become natural resources when humans value them.  4. Flow resonare non-renewable resources.  5. Natural  1. People can choose not to use natural resources when humans value them.  True False  4. Flow resonare non-renewable resources.  True False  5. Natural  1. People in the text to support your answer  1. What are some and resources that people like to have nearby?  2. Why is it important to know whether resources new seewable?  |                | Netural Resources - Question                            | 2S —       |       |
| 2. Natural resources are all around us.  3. Things in nature become natural resources when humans value them.  4. Flow resonate non-renewable resources.  5. Natural case be classified as non-renewable, flow and renewable.  True False  Oues Information from the text to support your answer  1) What are some all around us.  True False  Oues Information from the text to support your answer  1) What are some all around us.  True False  Oues Information from the text to support your answer  1) What is it important to know whether resources new important to know impo | True or F      | Circle whether the statement is true or fals            | e          |       |
| 3. Things in nature become natural resources when humans value them.  4. Flow resources are non-renewable resources.  5. Natural  7. True  False  7. False  7. Natural  7. Decomption of the text to support your answer  1) What are some formation from the text to have nearby?  2) Why is it important to know whether resources news  7. Decomption of the text to support your answer  9. Why is it important to know whether resources news  7. Decomption of the text to support your answer  9. Why is it important to know whether resources news  7. Decomption of the text to support your answer  9. Why is it important to know whether resources news   | 1. People ca   | n choose not to use natural resources.                  | True       | False |
| 4. Flow resonate are non-renewable resources.  5. Natural case be classified as non-renewable, flow and renewable.  True False  Ques information from the text to support your answer  1) What are some that people like to have nearby?  2) Why is it important to know whether resources new renewable?  | 2. Natural r   | esources are all around us.                             | True       | False |
| 5. Natural  Care be classified as non-renewable, flow and renewable.  True False  Ques  Information from the text to support your answer  1) What are some get all retained that people like to have nearby?  2) Why is it important to know whether resources news renewable?   | 3. Things in   | nature become natural resources when humans value them. | True       | False |
| Ques : Information from the text to support your answer  1) What are some that people like to have nearby?  2) Why is it important to know whether resources new resewable?  | 4. Flow reso   | are non-renewable resources.                            | True       | False |
| 1) What are some (e) all resembles that people like to have nearby?  2) Why is it important to know whether resources beway spewable?  | 5. Natural     | be classified as non-renewable, flow and renewable.     | True       | False |
| 1) What are some (e) all resembles that people like to have nearby?  2) Why is it important to know whether resources beway spewable?  | Ques           | nformation from the text to support your ans            | wer        |       |
|  | 1) What are    | som e al re that people like to have nearby?            |            |       |
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|  |                |   |            |       |
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| Making Connections  What does this reading remind you of in your life?   | 2) Why is it i | mportant to know whether resources bew                  | vable?     |       |
| Making Connections  What does this reading remind you of in your life?   |                |   | 2 ~        |       |
| Making Connections  What does this reading remind you of in your life?   |                |   | X          | _     |
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|  | Making (       | Connections What does this reading remind you of        | in your li | fe?   |
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| Name:                   | Date: | 9     |

# Flow Resources

#### Flow Resources

A flow resource is a resource that is neither renewable nor non-renewable. It must be used where and when it occurs and there is an unlimited supply. Flow resources are natural resources or processes that humans have no influence over. Examples include, sunshine, tides, wind, running water and geothermal. Flow resources will not be exhausted over time. This is not because they renew thems. Flow resources either have a source, like the sun, that is so huge it will not exhaust, or have a process such as the wind, rain or tides that repeat natural.

Flow resourcial rumans because using them does not create as many negative environments of the state of the s

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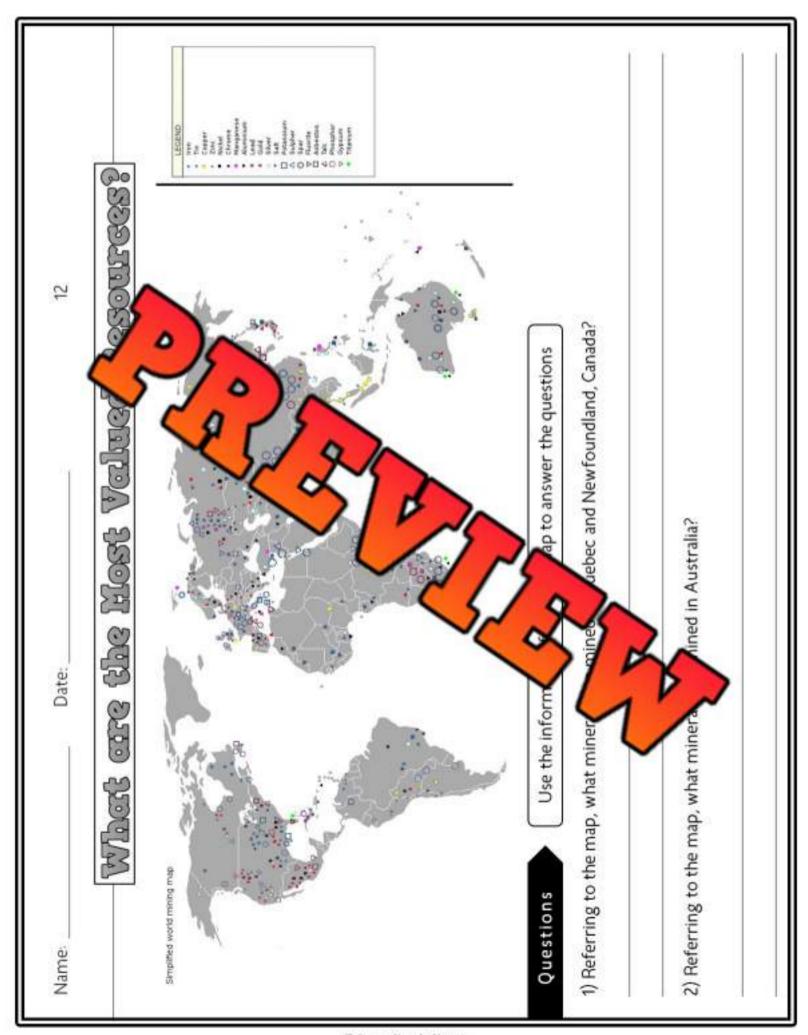
The higher the water drops,

er being pulled

to the turbine, creating more ener

There are lots of benefits to using hydroelectric power. It is clean, efficient, mable, cost effective and sustainable. The disadvantages of hydroelectric power are the amount of land the projects use and the disruption of plant and animal habitat. At Niagara Falls, Ontario Hydro has a 750-acre water reservoir that they use to divert water, so that they can always have a steady stream of water going through their turbines. In other places when a hydroelectric project is built, they construct an enormous dam and flood huge areas along the river that was dammed, destroying lots of animal habitat and plants and often forcing people to move. When the Three Gorges Dam was built in China, 13 cities and over 1000 villages were flooded, which displaced 1.2 million people.

| Name: Date:  |       | 10    |  |  |  |  |  |
|--|-------|-------|--|--|--|--|--|
| True or False Circle whether the statement is true or false  |       |       |  |  |  |  |  |
| 1. Flow resources are renewable resources.   | True  | False |  |  |  |  |  |
| 2. Sunshine, wind, rain and running water are examples of flow resources. True False                       |       |       |  |  |  |  |  |
| There are no negative environmental impacts from using flow resources.                                     | True  | False |  |  |  |  |  |
| 4. Humans can control flow resources.  | True  | False |  |  |  |  |  |
| 5. We use 6 % fossil fuels for our energy needs because flow resources cannot progpower to meet our needs. | True  | False |  |  |  |  |  |
| Questions  Use information from the opportant source of energy?  | nswer |       |  |  |  |  |  |
| 2) What are some of the negative impacts of hydroelectric power?   |       |       |  |  |  |  |  |
|  |       |       |  |  |  |  |  |



| Name: | Date: | 14 |
|-------|-------|----|

## Climate Change and Renewable Energy

#### Climate Change and Renewable Energy

One of the biggest problems the world faces in the next century is climate change. Climate change is the result of the average temperature on earth rising. The earth is getting warmer because gases (mostly carbon dioxide) are released into the air and gather in the atmosphere around the earth, acting like a blanket that traps heat. The ways humans make and use energy accounts for 70% of greenhouse.

Cling the big problem because it leads to more extreme weather like storms and hurrion and add to something, which causes ocean levels to rise, threatening low-lying countries like the N h for ding. When glaciers melt, it reduces the amounts of fresh water available to for the using drought and inability to grow food.

The United Nations has a way of the between Nations since the 1980's to get countries to reduce their green emit of done mainly through use of renewable energy sources and reducing energy. Cu to the 18.9% of its energy from renewable resources. By the end of 2018 most countries to reduce their green emit of the 1980's to get a source the 1980's to get energy sources and reducing energy. Cu to the 1980's to get energy from renewable resources. By the end of 2018 most countries to reduce their green emit of the 1980's to get energy sources and reducing energy and the 1980's to get energy from renewable resources. By the end of 2018 most countries to reduce their green emit of the 1980's to get energy from renewable resources.

Governments help meet their targets by offer the ntives wind farms or that add solar panels to buildings to reduce the new widely available to convert lighting to LED bulbs which saves en

The use of renewable resources plays a big role in reducing greenhood gas many forms of renewable energy including, solar, wind,

hydroelectric power, geothermal, ocean power and biomass.

#### Hydro Electric

Hydroelectric energy is the largest source of renewable energy worldwide. In 2019 Canada was the second highest

hydroelectric power producer in the world behind China. Hydroelectricity is clean energy that does not produce greenhouse gases. Hydroelectricity is a stable and consistent source of power. Unlike solar that needs daylight to produce power, hydroelectricity can be generated 24 hours a day. Hydroelectric power is cost effective. Hydro plants have low operating costs.

| Name:                          | Date:   |      | 15       |
|--------------------------------|---|------|----------|
| Climate C                      | hange and Renewable Energy - Qu   | esti | 200      |
| True or False                  | Circle whether the statement is true or false   |      | ,        |
|                                | uels for most of our energy needs because there are not<br>nergy sources to meet our needs. | True | False    |
| 2. Using renewable r           | esources helps reduce climate change.   | True | False    |
| 3. The way humans ma           | ake and use energy is the main source of greenhouse gas emissions.                          | True | False    |
| 4. Hydroeleco is               | the only green renewable energy source.   | True | False    |
| 5. The Unit                    | is working with its partner countries on reducing   | True | False    |
| Questions  1) How does burning | Use information from the text   |      | <b>)</b> |
|                                | 1   |      |          |
| 2) What are 4 difference       | ent types of renewable energy?  |      |          |
| S-                             |   |      |          |

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| 1 2001 - 7 7 | - 9.55 |    |



#### What is Ocean Power?

Ocean power is a flow resource. Ocean power is when we turn the energy that is in the waves and tides of the ocean into energy. Tides are produced twice a day from a combination of the moon's gravitational pull on the earth and the earth spinning on its axis. Tidal energy is reliable energy because the tides occur reliably every day.

Tidal s only available where the ocean shorelines allow for the water to be captured idal energy is made by creating a reservoir for the tidal water. The high t eservoir over turbines that turn and generate power. The high the reservoir is then released through tubes that ter over a turbine that turns, creating electricity. argest in South Korea only make power The tidal power plant in France oin and out using reversible makes en turbines. This plant ower for 130,000 households each ye enerating Station in Nova Scotia generates e 00 bomes.

We can get power from waves either from devices that float on the surface of the water or from devices on the ocean floor. The oscillating motion caused by the waves moves these devices up and down generating power. Portugal had the first and largest wave farm system that could produce power for 1500 homes. After 4 months there were problems with it, and it had to be taken ashore. Many different companies continue to work on protypes to make this form of energy production viable. Wave energy will be much like wind and solar power, it is dependent on the strength of the waves at the time. Because of the research and development needed to harness wave power it is expensive to produce.

Research is being done to assess

these projects and how to make them

| Name: Date:  |               | 19       |
|--|---------------|----------|
| Occan Power - Questio  | 15            |          |
| True or False Circle whether the statement is true   | or false      |          |
| Ocean power is non-renewable energy.   | True          | False    |
| <ol><li>Tidal power is like hydroelectric power because tides occur regularly twice<br/>so the power generated is reliable.</li></ol>  | e a day, True | False    |
| 3. Wave power is like wind and solar power because the strength of waves is variab   | le. True      | False    |
| Ocean poy an be created anywhere there is a shoreline.   | True          | False    |
| 5. More res development are needed before wave power is widely   | used. True    | False    |
| Questions  Use information from the important of the impo | <b>\</b>      |          |
| 1) How are tidal power and hydroelectric power similar?  2) Why is tidal power considered a flow resource?   |               | <u> </u> |

| Name:  | Data  | 24 |
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## Overfishing

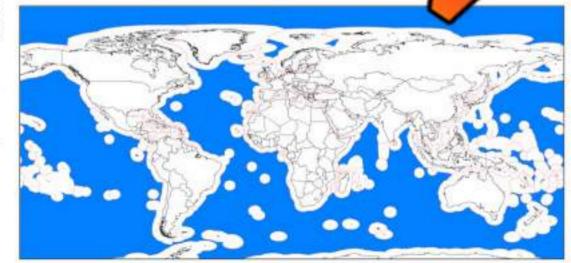
Overfishing is when fish are caught faster than they can replenish themselves. People who live in coastal communities have relied on fish as their main source of food for thousands of years. Fish were caught with spears, hook and line and throw nets which are all sustainable forms of fishing. As the world population grew and the demand for food increased, fish became an important industry. Fish were an important source of protein because it the preserved for years by drying, salting or pickling.

Resolute are on land have distinct territories and ownership. Ocean fish are not confidence to bic boundaries. Fish live and swim in water where, the water tempered and ability to escape predators allow their species to thrive. They swim and common pool cause of the countries boundaries. For this reason, fish are called common pool cause of the countries owns the fish, everyone shares this resource. Ships were also in the countries of the count

From the early property of the same of fished on the Grand Banks. The same of fish that had taken the catch, was caught in just 15 years. Canadians started to be concerned that depleting the fish stocks. Other country is similar to shout their fish resource. By 1980, 30% of the world's fish stocks were being a fish.

The United Nations met and created the Wation of the Law of the Sea which Canada signed in 1982 stating that every law as a rights to the resources within a 200-mile radius of their shore. This steril of fishing on the Grand Banks, but Canadians increased their fishing until 22 to depleted to less than 10% of its original numbers. The Canadian government of the North Atlantic cod fishery in 1992 hoping the fish would retain and re-

establish itself in a few years. This did not happen. Currently lobster, snow crab and shrimp produce a similar amount of revenue for Canadian fisheries that the cod fisheries did.



| Name:  | Date:  |             | 25          |
|--|--|-------------|-------------|
|  | Overfishing - Questions  |             |             |
| True or False                                    | Circle whether the statement is true or false                                  |             |             |
| 1. Fish are a renewable                          | e resource that will always be available.                                      | True        | False       |
| 2. Thirty percent of the that fish being extinct | ne world's fish stocks are being overfished which will lead to                 | True        | False       |
| 3. Fishing boats only f                          | fish off the shorelines of their own country.                                  | True        | False       |
| 4. Lobster, sparab a                             | and shrimp have replaced the cod fisheries in Atlantic Canada.                 | True        | False       |
| 5.When a p                                       | aced on cod fishing on the Grand Banks, the cod fish<br>onbers after 15 years. | True        | False       |
| Questions  | Use information from the text  | r           |             |
| 1) What is overfishing                           |  | <b>&gt;</b> | <b>&gt;</b> |
| 2) What is the United                            | Nations Convention of the Law of the Sea?                                      |             |             |
| <u> </u>   |  |             |             |

| Name: | Date: | 26 |
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# Desertification

#### Desertification

Desertification is when a fertile land area turns into a desert because of drought, global warming, deforestation, overgrazing and human activities. Desertification happens in areas that are drylands where humidity is very low. Drylands cover 41% of the earth's land surface and are home to 2 billion people. When people live in an area, they need resources such as food, water and crops. These resources need to be replenished and the needs of the people living on the land. In drylands, water is scarce and often drough then there is no rainfall for prolonged periods.

allow the hals to being people continue to use what little water an area has and when they allow the hals to bring vegetation, creating a greater demand on the area for resources than can be repleted by the half of time if people take more resources from drylands than can be replenished, the dry come to be to sustain any people or animals. Increasing populations and global warmand any globa

By the year 2000 between % of the year already at risk of desertification. The United Nations recognizes desertification as on ggest environmental threats the world faces. Deserting on is a though the year already at risk of desertification. The desertification than any other continent.

The biggest causes of desertification are human activities including:

- Overpopulation more people living closer together where there is not encount poort their activities.
- Deforestation people cut down the trees and shrubs for shelter and fuel leaving the ground bare and open to wind erosion.
- Overgrazing people used to move their livestock from one area to another which allowed the
  vegetation to recover between times when animals grazed on it. Now they often stay in one place
  allowing their animals to exhaust the pastures without giving time for the vegetation to recover.
- Switching the type of animals raised Goats produce valuable cashmere but they eat the vegetation, roots and all, leaving pastures bare and open to erosion, where sheep eat the grass and move to another are of the field allowing the pasture to recover.



Name: 28 Date: Desertification - Questions Visualizing Draw what you were picturing in your head while you were reading om the text made you picture that in your head? tion from the text to support your answer Questions 1) What is desertification According to the map, which areas are at the most re-True or False Circle whether the statement is true or false 1. Deserts only occur close to the equator. True False 2. Global warming is affecting the amount of desert land there is in the world. True False 3. Drylands cover 41% of the earth's land surface True False False 4. Desertification is not a big environmental problem. True 5. Human activities are one of the main causes of desertification. True False

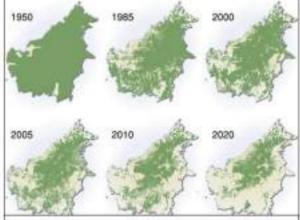
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|----------|-------|------|
| Name:    | Date: | 29   |
| Tall the | Date. |      |



#### Deforestation

Deforestation is when trees in a forest are cut down, so that humans can use the land for other activities. Deforestation has led to the loss of 10 million square kilometers of tropical rainforest leaving just 6 million square kilometers of rainforests. Forests are an important resource. They provide habitat for wildlife and the plants in the forests provide important ingredients for medicine. Trees are important in the battle against climate change. Trees absorb carbon dioxide in their roots and leaves and give off oxygen. Trees cool the earth providing statement of the providing statement of the providing to greenhouse gases. If the trees are burned, more carbon dioxide in the roots are released into the air. A tree that has been cut down is a significant of the provide.

Tree in a for the proportion of the proportion o



Deforestation in Borneo 1950-2005

the land that has been cleared grazing exchausted with grass not being able grow bot and dusty earth and farm at clear and land to support their cat

In Mala, the pair to grow palm tre pair to grow palm tre pair to ge deforestation is climate characteristics. The pair to ge has caused increased tempton to ge wildfires that are more set 23% of deforestation is the result of wildfires.

#### What can be Done About Deforestation?

There are several things we can do about deforestation including:

- Eat less meat- if there is less demand for beef, less grazing land will be needed.
- Plant a tree
- Boycott products that have palm oil- Palm Oil plantations are replacing rainforests. If there is less demand for the product there will be less plantations needed.
- Go paperless as much as possible. Don't print pages needlessly.
- Reduce, reuse and recycle.
- Choose wooden items made from bamboo rather than less sustainable types of wood.

| Name:   | Date:  |           | 30       |
|---|--|-----------|----------|
| 2000  | respectation - Acresements                           |           |          |
| True or False                                       | Circle whether the statement is true or fals         | e         |          |
| 1. It does not cause any harm                       | to cut trees down if you plant crops in their place. | True      | False    |
| Cutting down rainforests I have lost their habitat. | eads to some animals becoming extinct because they   | True      | False    |
| 3. Eating less meat helps pre-                      | vent deforestation.                                  | True      | False    |
| 4. Trees hav mpact on the                           | he water cycle.                                      | True      | False    |
| 5.Cutting d causes                                  | greenhouse gas emissions.                            | True      | False    |
| Sum   | mmarize the reading by writing the important in      | formatio  | on       |
| Questions   |  | answer    |          |
| 1) What are the problems ca                         | used by deforestation?                               |           | <b>)</b> |
| 2) Should Canadians have an land? Why or Why not?   | y say about what people in South America or Malay    | sia do wi | th their |
|   |  |           |          |

| Name: | Date: | 31 |
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# Netural Resources Ethical Use

#### Natural Resources Ethical Use

Every country has some natural resources. The people in each country rely on the resources around them to live. Sometimes when natural resources are discovered in an area the people who live in that area are displaced or disadvantaged in some way that causes them to be treated unfairly or causes them harm.

In New York of the Maori people first settled New Zealand in 1300. In the 1850's European settlers come the Maori. The Maori have a tradition of protecting nature. To this tribe program of the first active is a way to respect their ancestors and to make sure they have resources for the first out are beginning to understand that the indigenous people who have lived on the first operation of protect it. Often indigenous people are opposed to development from interest of the first operation of the first operation but they are first of the first operation operati

In South America land that is controlled Indigent copied beforestation rates that are 2-3 times lower than other areas. Allowing indigenor the top color of their land is an economical way to fight climate change. In Kenya conserving the land for which community have been successful in conserving some land for which conserving that offset the cost of losing the land for animal herding. In Color and land east of Winnipeg over to First Nations, protects the land and habitat from uncertainty and logging.



Governments are beginning to recognize that indigenous people are good at conserving nature for future generations. The values reflected by indigenous people in protecting the environment are recognized by the United Nations in their document the United Nations Declaration on the Rights of Indigenous People.

| Name:   | Date:   |          | 32    |
|---|---|----------|-------|
| Neture  | l Resources Ethical Use - Que                                     | stion    | 18    |
| True or False                                 | Circle whether the statement is true or false                     |          |       |
| 1. Indigenous people                          | stop the productive use of land.                                  | True     | False |
| 2. Indigenous values                          | support conservation.   | True     | False |
| 3. There are many example save the environmen | examples around the world of indigenous people who protest to nt. | True     | False |
| 4. Indigenous                                 | ship of land has no affect on the environment.                    | True     | False |
| 5. The right                                  | py people have often been disregarded in the name of progress.    | True     | False |
| 2) Do you think ind<br>hundred years ago?     |   | nem ove  | r a   |
| Making Connec                                 | What does this reading remind you of in                           | your lif | e?    |
|   |   |          |       |

| Name: | Date: | 33 |
|-------|-------|----|

# The Tragedy of the Commons

The Tragedy of the Commons is an article written by Garrett Hardin, who describes a field in a village square that is not owned by any one person and on which local people can bring their cows to graze for free. At first everyone brings one cow to the field, but eventually, the users realize that they will get more benefit if they bring additional animals there to graze for free. If more animals are brought to the field, the grass will not be able to recover fast enough to continue to support all the cows and the field will be ruined. The users make the choice to bring extra cows because they will benefit more personally from having more cows grazing toda. They know they cannot control the others who can also add additional cows. In the end the choice to overuse the field and soon they have nowhere for their cows to graze because they will be produced grass. This highlights the problem that when no one ow

fish in the ocean buntry will. Because of this attitude the cod fisheries on the Grand Banks were extended as the cod fisheries on the

# Solutions to the Tragedy of mo

Private Ownership - when people sor they want to preserve and maintain it and to protect it, but the benefit of the resource goes to the private owner.

Government ownership – when governments take ownership, they can regulate the use of the resource and make rules to protect it. Sometimes governments are less efficient than private owners so, prices for goods made with the resource may be more expensive.

Co-operation between users - Elinor Ostrom was

the first woman to win a Nobel prize in Economic Sciences. She believed that people could work together to share a resource if they had some rules for:

- how the resource could be shared
- how to resolve disagreements
- how to monitor whether people were following the rules
- what the consequences would be if they did not follow the agreed upon rules

The United Nations is an example of a group that helps make rules for how we share resources in the world.



| Name:                         | Date:   |      | 34       |
|-------------------------------|---|------|----------|
| The ?                         | fregely of the Commons - Ques   | tio  | 28-      |
| True or Fal                   | Circle whether the statement is true or false   |      |          |
| 1. The Tragedy                | oof the Commons is a way to understand cattle grazing.1                               | True | False    |
| 2. The Tragedy of using share | y of the Commons is an analogy to help us understand the difficulties<br>d resources. | True | False    |
| 3. The phrase                 | comes from an article written by Garrett Hardin.                                      | True | False    |
| 4. Governm                    | ol is the only solution to the Tragedy of the Commons.                                | True | False    |
| 5. There                      | Tragedy of the Commons that work in different situations.                             | True | False    |
|                               |   |      |          |
| Question                      | Use information from the text   | r    |          |
| 1) What is Elino              | or Ostrom famous for?   |      | <u> </u> |
| 2. What are the               | e 3 solutions to the Tragedy of the Commons?  |      |          |
| -                             |   |      | <u> </u> |

| Name: | Date: | 35 |
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# Sustainability

# Sustainability

In 1987 the United Nations released the Brundtland Report called, Our Common Future. This report was a call to action for the world to consider the sustainability of all our activities.

The report, defines sustainability as, "meeting the needs of the present, without compromising the ability of future generations to meet their own needs."

The report draws attention to the increase in people who do not have their basic needs metal tions about the increasing amount of useful land that has been lost due to desertification es the threat of global warming, deforestation, acid rain and air and water possible action to reverse these negative environmental trends.

# There a equal lead to sustainability including:

Economic Pillar e a is profit focused- Sustainability

must be financia.

Social Pillar - This pilla eop tainability focuses on equity, eradicating power of the vone of the second s

of life, and there are universal

Environmental Pillar - This pillar is ocus
conserving resources-protecting natur

wildlife- consuming resources at a rate at which the

can replace themselves.

How Can we Help Become More Sustainable?

- 1) Be informed consumers.
- Look for products without overpackaging.
- Only buy what you need -think reduce-reuse-recycle
- Be aware of endangered species and overfished species. Don't buy contract tuna.
- Be aware of social issues like the use of child labour in clothing manufacturing. Don't buy products from areas known for these practices.
- Look for fair trade products for example coffee, to make sure producers are being paid fairly.
- Be aware of brands that are endorsed by groups trying to produce goods in a more environmentally friendly way such as Wood Preservation Canada, when buying pressure treated wood or the Rainforest Alliance when buying palm oil.
- 2) Conserve fossil fuels-don't make needless car trips, carpool, walk and bicycle
- 3) Go paperless as much as possible don't print things that aren't necessary.
- Turn off electronics and lights when not in use.

Name: 36 Date: Sustainability - Questions Visualizing Draw what you were picturing in your head while you were reading from the text made you picture that in your head? Questions ation from the text to support your answer 1) Add 2 additional idea Become More Sustainable, section? 2) What is the Brundtland Report's definition of sustain True or False Circle whether the statement is true or false True False 1.Making a profit is the most important part of becoming sustainable. 2. Sustainability is concerned with, people, the planet and profits. True False 3. Making sure everyone has their basic needs met is an important part of True False becoming sustainable. 4. Our Common Future is the name of the Brundtland Report True False Energy efficiency has nothing to do with sustainability. True False

| lan | ne   | _   |      |     |     |   |      | _    |      | Da            | te:_ |            |      |      |      |     |     | _    |      | 3              |
|-----|------|-----|------|-----|-----|---|------|------|------|---------------|------|------------|------|------|------|-----|-----|------|------|----------------|
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| Wo  | rd   | Se  | arc  | h   | •   |   | Find | the  | e wo | ord           | banl | k w        | ord: | in   | the  | puz | zle |      | Ž.   | Word Bank      |
| D   | N    | I   | W    | J   | M   | Ε | ٧    | Q    | Ε    | L             | 5    | Ε          | С    | R    | U    | 0   | 5   | Е    | R    | Natural        |
| В   | E    | 6   | N    | I   | Q   | 6 | X    | V    | У    | F             | Ι    | U          | L    | J    | Х    | Ι   | В   | Т    | Т    | Resources      |
| G   | 6    | Х   | 5    | M   | I   | 0 | Α    | C    | Q    | W             | Н    | 5          | р    | L    | Z    | ٧   | Α   | Α    | у    | Flow           |
| K   | A    | D   | K    | Н   | w   | ٧ | W    | N    | ٧    | A             | P    | L          | 5    | C    | I    | M   | J   | M    | E    | Renewable      |
| C   | 5    | L   | ^    | M   | R   | E | Н    | Т    | 0    | Е             | G    | A          | I    | 0    | U    | ٧   | 0   | I    | У    | Fossil         |
| R   | Х    | F   | 5    | _   | V   | R | В    | Z    | K    | Q             | F    | R          | F    | D    | F    | Α   | С   | L    | Ε    | Fuels          |
| E   | F,   | J   | 1    | 0   | H   |   | Z    | 5    | J    | Ε             | Т    | U          | D    | D    | X    | L   | J   | C    | F    | Trees          |
| Ν   | 4    |     | 5    | V   | 7   |   | ,    | R    | Q    | $\mathcal{C}$ | ٧    | Т          | J    | Т    | I    | Α   | Ν   | 5    | I    | Wildlife       |
| Ε   | K    | I   | L    | ~   | ١,  | , | 0    | S    |      | V             | U    | A          | L    | Ι    | 5    | 6   | У   | L    | L    | Hydroelectric  |
| W   | Н    | A   | Н    |     | Y   | 1 | У    | y    |      |               | 3    | N          | I    | N    | 6    | Ν   | G   | E    | D    | Gas            |
| A   | R    | L   | W    | ٧   | 0   |   | 7    | /    |      | X             | K    |            | D    | R    | D    | D   | Ν   | U    | L    | Mining         |
| В   | L    | Q   | D    | E   | F   | 0 | 1    | (    | V    | V             |      | -          | ŗ    | 8    | N    | K   | Ι   | F    | I    | Climate        |
| L   | Q    | U   | У    | D   | R   | T | В    | 5    | V    | G             |      | "          |      | Ų    |      | I   | Н   | Q    | W    | The second     |
| E   | R    | F   | X    | D   | N   | 0 | I    | T    | A    | C             |      | /          | I    | 1    | ,    | J   | 1   | E    | D    | Overfishing    |
| 0   | L    | 0   | У    | Q   | Q   | У | Q    | Q    | R    | Т             | 7    | 0          | ~    |      | F    | 7   | ۷.  |      | K    | Desertificatio |
| X   | 6    | Н   | Α    | L   | S   | Z | Α    | 0    | L    | Z             | W    | Т          | /    |      | U    |     | 5   | 2    | K    | Deforestation  |
| Т   | W    | D   | Z    | В   | G   | M | У    | 5    | 0    | Α             | Ν    | Ι          | Q    | 7    |      |     | X   | 5    | 1    | Government     |
| Т   | C    | D   | P    | P   | T   | D | X    | Р    | 5    | Н             | N    | Ε          | G    | Q    | C    |     |     | X    |      | K              |
| S   | E    | E   | R    | T   | 5   | J | L    | 5    | X    | У             | 5    | 5          | W    | V    | U    | Т   | 7   | 1    |      | 1 ~            |
| L   | М    | K   | J    | R   | Q   | Н | У    | J    | K    | W             | 0    | R          | У    | Ι    | ٧    | J   | 0   | F    | 4    | mass           |
| /or | 'd 9 | cr  | am   | ble | •   | T | Jns  | crar | mbl  | e th          | e w  | ord        | ban  | k w  | ord  | sfr | om  | abo  | ve   | Geothermal     |
|     | _    |     |      |     | 4   | _ |      |      |      |               |      |            |      | _    | - 20 | 223 |     |      |      |                |
| E   | ANE  | EWF | BLE  |     |     |   |      |      |      |               |      |            |      | C    | NFSL | .S  |     |      | 3    |                |
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|     | LLE  | DIV | VIF  |     |     |   |      |      |      |               |      |            |      | IN   | IGM  | NI  |     |      |      |                |
|     | RAL  | JTN | AL   |     |     |   |      |      |      |               |      |            |      | ROC  | SSR  | EUE |     |      |      |                |
| V   | IDHO | GOE | NISI |     |     |   |      |      |      |               |      |            | ٨٥   | NIIO | ene  | DTS | ОТ  |      | - 65 |                |

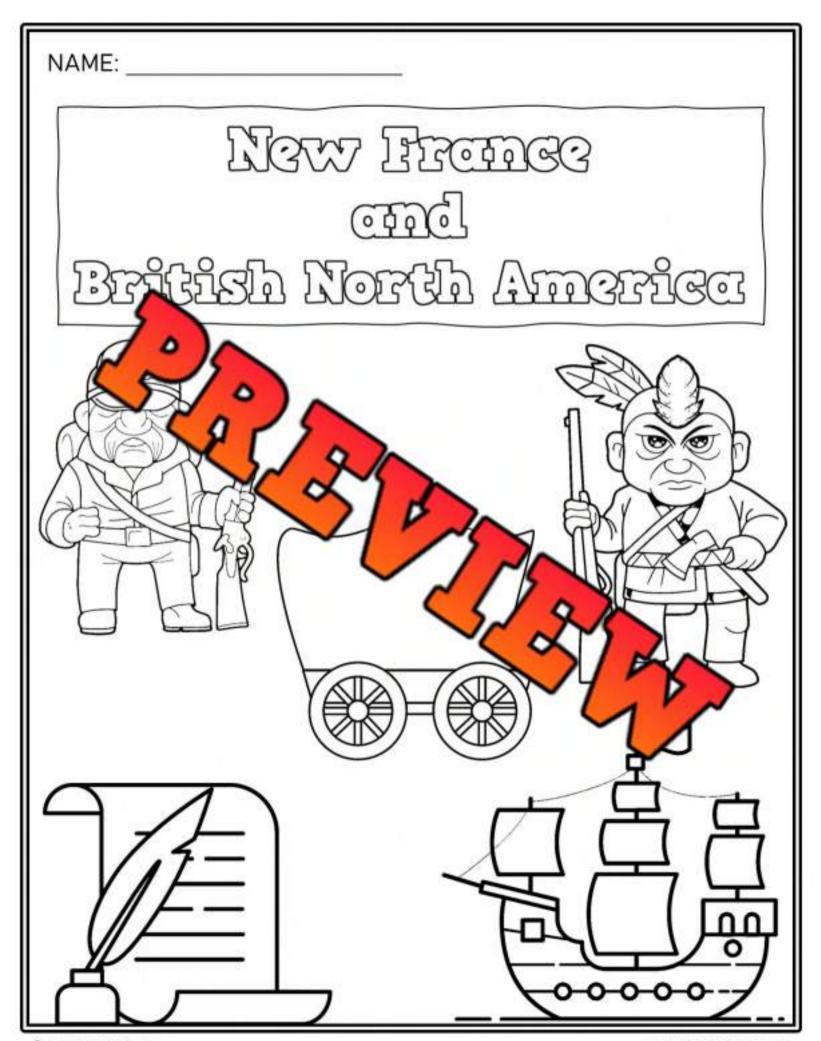
| Name:                                   | ė.                     | Date:  |
|---|------------------------|--|
| Unit Test                               | - Nedwed Re            | sources Around the World   |
| Multiple Choice                         | /6                     |  |
| 1. Which of the follow resource?        | wing is a renewable    | 2. Which of the following is <b>not</b> a flow resource?                     |
| a) Fossil Fuel                          |                        | a) Waterfalls - Hydroelectricity   |
| b) Biomass                              |                        | b) The Sun – Solar Energy  |
| c) Coal                                 |                        | c) Wind  |
| d) Natural Gag                          |                        | d) Fossil Fuels  |
| 3. Which of resource?                   | ing is a non-renewable | Which form of energy uses heat from the<br>Earth's core?                     |
| a) Coa                                  |                        | a) Biomass   |
| b) Biomass                              |                        | b) Geothermal  |
| c) Geothermal enc                       | 9 7 7                  | c) Solar   |
| d) Solar energy                         | V/ W                   | d) Hydroelectricity  |
| 5. The burning of wh<br>climate change? | nich resource to       | ich form of energy is when we use plants or<br>terial to create electricity? |
| a) Timber                               | ~ /                    | Coal Coal  |
| b) Waste                                | _                      | b).B   |
| c) Fossil Fuels                         |                        | Serro Serro  |
| d) Hydro                                |                        | d) Solar   |
| Definitions (1 marks                    | each) /3               |  |
| Term                                    | Defi                   | nition (what does it mea   |
| Deforestation                           |                        |  |
| Flow Resource                           |                        |  |
| The Tragedy<br>of the<br>Commons        |                        |  |

| Short Answer Questions (2 marks each) /6   |                    |
|--|--------------------|
| What is the difference between a renewable and non-renewable resource?   |                    |
| 2. Why are some indigenous groups upset about how natural resources are being us   | sed on their land? |
| 3. What Tisming? I we be worried about it?   |                    |
| 3. What strang? we be worried about it?  |                    |
| ong Answer Questions  What does sustainability mean? What kinds of the same human bat are not least an are not least are | leading to         |
| sustainability: what can we do to become more sustain  |                    |
|  |                    |
|  |                    |
|  |                    |
|  |                    |

# Grade 7 History Unit NEW FRANCE AND BRITISH NORTH AMERICA, 1713–1800

|                      | Curriculum Expectations  | Pages That Cover<br>the Expectations                                 |
|----------------------|--|--|
| A1.1                 | analyse key similarities and differences in social values and aspects of life<br>between people in present-day Canada and some different groups and<br>communities, including First Nations, Métis, and Inuit communities, in<br>Canada between 1713 and 1800  | 27 - 39, 44 - 45,<br>88 - 93   |
| A1.2                 | analyse some of the main challenges facing various individuals, groups, and/or communities, including First Nations, Métis, and Inuit individuals and/or communities, in Canada between 1713 and 1800 and ways in which people responded to those challenges and assess similarities and differences between some of these challenges and responses and those of people in present-day Canada  | 14 - 15, 23,<br>30 - 39, 84 - 93                                     |
| A1.3                 | analyse the displacement experienced by various groups and communities, including First Nations, Métis, and Inuit communities, who were living in or who came to Canada between 1713 and 1800  | 48 - 83  |
| A3.:                 | Preview of 50 pages from to product that contains 156 p  |  |
| - 15                 | total.   |  |
| A3.3                 | on various individuals, groups, and/or communities, including First Nations, Métis, and Inuit individuals and/or communities   | 40 - 41, 40 - 59,<br>66 - 71, 76 - 81                                |
|                      | on various individuals, groups, and/or communities, including First Nations,   |  |
| A3.4                 | on various individuals, groups, and/or communities, including First Nations, Métis, and Inuit individuals and/or communities  identify key social and economic changes that occurred in and/or affected Canada during this period and explain the impact of some of these changes on various individuals, groups, and/or communities, including First Nations,   | 66 - 71, 76 - 81   |
| A3.3<br>A3.4<br>A3.5 | on various individuals, groups, and/or communities, including First Nations, Métis, and Inuit individuals and/or communities  identify key social and economic changes that occurred in and/or affected Canada during this period and explain the impact of some of these changes on various individuals, groups, and/or communities, including First Nations, Métis, and/or Inuit individuals and communities  describe some significant aspects of daily life in various First Nations, Métis,   | 66 - 71, 76 - 81<br>10 - 35  |
| A3.4<br>A3.5         | on various individuals, groups, and/or communities, including First Nations, Métis, and Inuit individuals and/or communities  identify key social and economic changes that occurred in and/or affected Canada during this period and explain the impact of some of these changes on various individuals, groups, and/or communities, including First Nations, Métis, and/or Inuit individuals and communities  describe some significant aspects of daily life in various First Nations, Métis, and Inuit communities in Canada during this period  describe some significant aspects of daily life of different newcomer/settler | 66 - 71, 76 - 81<br>10 - 35<br>27 - 33, 92 - 93<br>34 - 39, 44 - 45, |

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# Two Bow Wempum Belt



## Haud Thee an tch

In 1613, Mohr and dip ople coming into their territory. The visitors were Dutch, from the finds (find). The Mohawk and the rest of the Haudenosaunee in the copeans).

The Dutch, with the Haudenosaunee shows a suggested the Haudenosaunee did not agree, and suggested the grown of the Haudenosaunee and suggested the grown of th

## Two Row Wampum

After the two groups began to learn more about the ow W came to an agreement. The Haudenosaunee created the ow W came to symbolize the agreement. The belt was the first treaty between the ligenous.

It shows two lines that represent how they will travel down the river of life side by side, and neither will attempt the vessel.

## Treaty - Silver Covenant Chain of Friendship

The Dutch recorded this agreement on paper with 3 silver chains. The 3 chains represented 3 principles that the two groups would live by. First, friendship between the Haudenosaunee and the Dutch. Second, peace between their groups. Third, that the agreement would last forever.

The silver chains represented the friendship between the two. The silver symbolized that the chains would rust, but that they could be polished when the brothers met again. The agreement was called the Silver Covenant Chain of Friendship.

9

Curriculum Connection A3.2

# Two Row Wampum Belt - Questions

# Questions

Answer the questions below

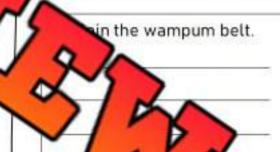
1) What happened when the Dutch landed on the Mohawk's territory?



Draw I

Draw another wampum

n used to represent the treaty



# True or False

Is the statement true or false

| The Two Row Wampum belt was the first treaty between<br>Europeans and the Indigenous | True | False |
|--|------|-------|
| 2) The relationship between the two groups was peaceful                              | True | False |
| 3) The Haudenosaunee used large sail boats to get down river                         | True | False |
| 4) The Dutch also recorded the treaty on paper                                       | True | False |
| 5) The Dutch thought they were above the Haudenosaunee at first                      | True | False |

# Voyageurs - Northwest Trading Company

## Who were the Voyageurs?

A **voyageur** was someone, usually a Frenchmen who was hired by a fur trading company to travel across present-day Canada to trade with the First Nations. Voyageurs were master canoers, as they had to paddle through rushing rivers with strong rapids.

Voyageurs were really hard workers, as they portaged their canoes through forests and up and mountains. Portage means to carry you canoe. They needed to get from one river to another. The canoes were made of light wood

e loaded, they

were very avv.

materi

The Voyag 6 mt iter
could trade with the latir
pots, pans, weapons, tools,
They carried their own pack, while
sometimes weighed up to 150 kg! Most o
voyageurs were French, from the city of Montreal

Northwest Trading Company (1779 - 1821)

The Northwest Trading Company (NWTC) began in Montreal. They hired many Francophone voyageurs to travel west. The NWTC was interested in exploration as well as fur trading. They hired many explorers who mapped out routes to the west. This made it much easier for the people in the east to travel west.

No Fur Post

from France.

Alexander Mackenzie was a fur trader and Scottish explorer who was sent by the NWTC to map a route across North America, from east to west coast, ending in BC.

Many of the voyageurs that had travelled west to places like present-day Alberta, stayed there. They set up trading posts where indigenous people could trade furs they had in exchange for things that came from Europe. Many communities that exist in Alberta now started as trading posts. Fort Edmonton is an example!

Curriculum Connection A3.4, A3.8

# Voyageurs - Northwest Trading Company

13

| True or False          | Is the statement true or false                   |          |          |
|------------------------|--|----------|----------|
| 1. Voyageurs had an e  | asy time travelling across present-day Canada    | True     | False    |
| 2. They had to portage | e to get from river to river                     | True     | False    |
| 3. Their canoes were r | made from really heavy wood material             | True     | False    |
| 4. The North St Trad   | ling Company hired many Francophone voyageurs    | True     | False    |
| 5. Many F              | s stayed in the west after they travelled there  | True     | False    |
| 2) What was the North  | west Trading Company? Was ritish such co         | ompany?  | <b>—</b> |
| isualizing Draw wha    | at you were picturing while you were reading. Ex | owin the | picture  |

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age

| Nar    | me:           |  |  |
|--------|---------------|--|--|
| 3.3543 | P. S. See St. |  |  |

# Explorer: Alexander Hackenzie

#### Alexander Mackenzie

Alexander Mackenzie was a Scottish explorer who made his way across Canada to BC. He is remembered for travelling 3,700km by land and rivers in terrible conditions across North America. He founded the Mackenzie River (largest river in Canada), which crosses through British Columbia, Alberta, Saskatchewan, the Yukon and the Northwest Territories

## Expanding

By the la eans were becoming more interested in the western parts of prese hwest Trading Company was racing with the Hudson Bay Company to fin to the Pacific Ocean.

Alexander ars old when he was hired by the Northwest find a route to the Pacific Ocean, then up Trading Company to fi into Alaska, across to Russia

## His Voyages

- 1) His first voyage took him up the Mackenzie Riv Ocean. Mackenzie was hoping the river would take him to the Pack
- 2) His second voyage took him to the Fraser River, and ic Ocean. He was warned by the Shuswap First Nation to stop paddline the rest of the way. Mackenzie agreed and went the rest of the were well made by the First Nations in the area. When he got to the Pacific Ocean, he inscribed in large letters, the writing on the rock. It says, "Alex

Mackenzie from Canada by land 22nd July 1793." He was clearly proud that he travelled across the

continent without using ocean waters.

## Successful Journey

After his successful journey, Mackenzie became a well-known explorer. He was elected to the Legislative Assembly in Lower Canada.

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Curriculum Connection A1.2, A3.4, A3.8

# Explorer: Alexander Mackenzie

# True or False

Is the statement true or false

| 1) Mackenzie was successful in his mission on his first voyage    | True | False |
|---|------|-------|
| 2) Mackenzie was the first to travel across North America by land | True | False |
| 3) Mackenzie was 32 when he travelled across North America        | True | False |
| 4) The Magazie River is named after Alexander Mackenzie           | True | False |
| 5) The year 10 made it across Canada by land                      | True | False |

Ques.

er the questions below

- 1) Why would h da by land on the rock? 2) How did Mackenzie benefit from First Nations,

Draw

You just made it across Canada by land. What would you inscribe on the rock?

Name:

# Hudson's Bey Company

#### What is the Hudson's Bay Company?

The Hudson's Bay Company is the oldest running business in Canada. It was started in 1670 as a collection of trading posts that British settlers would operate across British North America (present-day Canada). In exchange for animal furs, the trading posts offered European items like weapons, gunpowder, bullets, beads, fishhooks, axes, sewing needles, scissors, coming pots, and wool blankets.

Rich European settlers hunted and trapped animals cross British North America (BNA).



Hudson Bay Company Store Cordova Street, Vancouver, British Columbia, Canada.

The Element of the tofind furs to give them luxurious items to better their lives, however, a best of hypters were the First Nations. They knew the land the best and already have the land the best of the property methylated by the land the property methylated by the land the land the best of the land the land the best of the land the

very motivated to the ite ding post to improve their quality of life.

#### Rupert's Land

In 1670, the King of England (King Farle Country of Charter that gave Rupert's Land to the House Country of Cluded Country of Coun

The Hudson's Bay Company (HBC) and Northwest Trading (N)
The NWTC was formed in 1779 by a group of Montreal-base rs.
around since 1670. The HBC was unhappy that the NWTC was taking

The HBC had an advantage because they used large ships to travel to the an around North America. It took them 14 months to go west, pick up the furs, and bring them back to England for sale. The NWTC on the other hand, travelled by land across North America. It took the Voyageurs from the NWTC an extra year and cost them more money as well.

The two companies fought for many years before 1821, when an intense battle began. Lord Selkirk from the HBC, settled on land close to Métis and First Nations in present-day Manitoba. The Métis and First Nations had close relationships with the NWTC. They attacked Selkirk during the Battle of the Seven Oaks in 1816, and 21 English settlers were killed. Selkirk retaliated and captured Fort William.

Both the NWTC and HBC suffered from the fighting. In 1821, after years of fighting, the NWTC merged with the HBC. The HBC was able to buy out the NWTC because it had more money and British political connections.

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# Hudson's Bay Company

# True or False

## Is the statement true or false



| 1. The Hudson's Bay Company started in 1680                         | True | False |  |
|---|------|-------|--|
| 2. The HBC traded items for animal furs                             | True | False |  |
| 3. Anyone could trade animal pelts for items at an HBC trading post | True | False |  |
| 4. The best pers were Europeans                                     | True | False |  |
| 5. The iter for pelts were mainly metal                             | True | False |  |

Ques.

er the questions below

| 1) What were sold a       | g post? |
|---------------------------|---------|
|                           |         |
|                           |         |
| 2) What is Rupert's Land? |         |
|                           |         |
|                           |         |

|    | - |   | _ |   |   |
|----|---|---|---|---|---|
|    | m | m | m |   | - |
| Su |   |   |   | - | - |
|    |   |   |   |   | - |

Summarize the relationship between the HBC an NWTC

# Name:

# Trading Post Prices

## **Trading Beaver Furs**

When you entered a Hudson's Bay or
Northwest Trading Company's trading
post, you could exchange beaver pelts for
different us titems. Instead of using
money to you would trade 1
unit of trade was
called, e beay d it was
equal to a print w at or ent
(perhaps two smalls s).

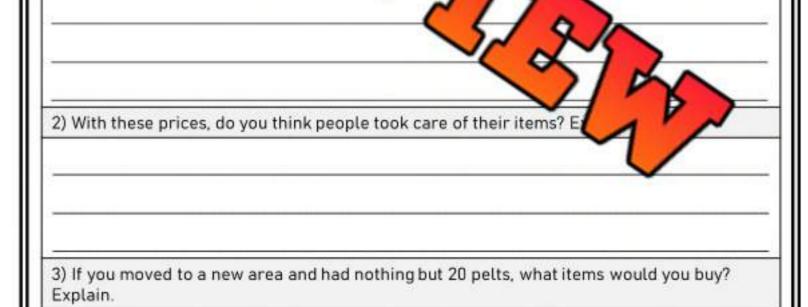
| Beaver Pelt Units | Items                 |
|-------------------|-----------------------|
| 1 MB              | 0.5 kg of glass beads |
| 1 MB              | 0.75 kg of gun powder |
| 1 MB              | 8 knives              |
| 1 MB              | 1 pair of pants       |
| 1 MB              | 2 hatchets            |
| 1 MB              | 1 blanket             |
| 1 MB              | 20 fish hooks         |
| 1 MB              | 12 dozen buttons      |
| 11 MB             | 1 musket (gun)        |

## Questions

Answer

1) What stands out to you about the cos

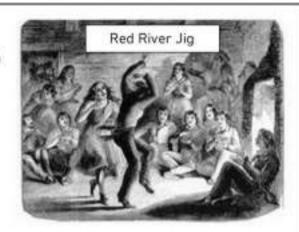
~



# Métis Culture - Mix of First Nations and Europeans

#### Music and Dance

The Métis are known as a festive and social group who love song and dance. As Europeans brought violins to Canada, the Métis began using it to make their own tunes. The Scottish and French-Canadian fur traders introduced to to the Métis. The Métis would mix the music



France (are new ) e new songs also led to new dances, like the red river jig.

#### Métis Fiddle

The Métis fiddle is of my Métis of Canada developed. The fiddle has become a key feature of the second and french-Canadian circular vely, festive kind of dance where you spend a lot of time hopping, kicking, and a you

When you combine the tunes from addle wit of day ou get a Métis dance that is upbeat and a lot of fun! The first person to e Métis dance lexander Begg in 1867!

#### Food - Bannock

Bannock is a type of fried bread that originated in Scotland. When S came to Canada, they made Bannock out of barley, peameal, or oatmeal. The, wheat flour was used instead to make the bread that was fried in oil.

As wheat became more available, Indigenous groups began to use Bannock as a staple in their diet. The Métis especially, made Bannock a big part of their way of life. They



would mix up flour, water, and fat in a bag and then toss it on a pan to cook. The result was a flat and biscuit like bread.

Bannock was important to the Métis because it was cheap and easy to make. This prevented the Métis from going hungry!

# Hétis Culture - Hix of First Nations and Europeans

28

# Questions

## Answer the questions below



1. What is the Red River Jig? Who was the first to do the Métis jig?

2. How did h and French-Canadians affect the culture and way of life of the Métis?

# **Making Connections**



you of in your life?



# True or False

## Is the statement true or false

| 1) The first Métis jig was done in 1967  | True | False |
|--|------|-------|
| 2) The Métis Jig incorporates music/dance from Scottish and French-<br>Canadians | True | False |
| 3) Bannock is made from flour, water and fat                                     |      | False |
| 4) To do a jig, you hop, kick, and shuffle your feet to the music                | True | False |
| 5) The Métis learned Bannock and Jigging from the Scottish                       |      | False |



#### New France (1534 - 1763)

In the 1530s, France sent explorers to find new land. They travelled west and landed in the Atlantic parts of Canada. Many of the explorers ventured through the St. Lawrence River,



which allowed them to get further inland of present-day
Canada. Over the next couple hundred years, France began
an attempt to colonize this New World. Colonize means they
sent people to live in a new region but still be under their
old country's name. Colonizing is a way for a country to
their territory as they create new colonies around
they named their new colony, New France.

#### Challenges of New France

Colonizing a new territory is difficult, as a selleng overwhelm the settlers. A settler is someone who travels to a new colony or an analysis there. Settlers had to deal with three main challenges when they land the settlers are settlers.

- 1. The harsh, cold winters in New France
- The lack of food available and the fact they didn't know how hu know if the soil was good for growing
- They didn't know who the indigenous people were and if they would welcome the
  French. Indigenous people are people who lived in an area from the beginning or before
  others arrived.

# Reasons for Exploring and Colonizing the New World

The **New World** was a term used to describe this land west of Europe that we now call North America. The explorers who found the New World were looking for shipping routes to Asia to allow the French traders to import silk. They were also looking for precious gems and metals such as gold to make France rich.



# Questioning

Write 3 questions you have about New France

1)

Name:

- 2)
- 3)

# Questio

er the questions below

1. What does it color region? Why would countries want to colonize?

2. What challenges did settlers face when living



# True or False

Is the statement true or false

| 1) The settlers used the Fraser River to get inland of Canada    | True | False |
|--|------|-------|
| 2) Colonize means to send settlers to a new place and control it | True | False |
| 3) Colonizing is a way for countries to expand their territory   | True | False |
| 4) Settlers are people who stay in their country                 | True | False |
| 5) Living in New France was easy for settlers                    | True | False |

the lots could

Name:

# Scigncurs and Habitants

#### Settlers in New France

The explorers and fur traders were the first two groups that lived in New France. After they settled, farmers were sent to develop the land. The farmers were divided into two main groups – seigneurs and habitants.

# Second row First row

### Seigneurs and Seigneuries

The men that the king of France liked were called seigneurs. A seigneur was someone who may have supported the king back in France, or perhaps was a who fought well in war. Either way, a seigneur was with a seigneurie, which was a large area of land was of willometres by 10 kilometres. A seigneurie

o b nily to develop, so they had to get

habitant on it and help develop the

A seigneurie had fields that were long and low so have access to water. Seigneuries were set beside the water could be used for farming, transportation, fishing, a would keep a large section of the land to provide a church and mill for the habitants.

#### **Habitants**

The farm families that worked on the fields on the seigneurie were called habitants. Habitants worked very hard and had lots of responsibilities, like cutting and clearing the land, growing crops, and raising animals. Habitants didn't live on the land for free. They needed to give a portion of their crops to the seigneurs as well as pay taxes to the Church and to the government. They also had to work without pay for ten days a year on the seigneur's personal fields.

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Curriculum Connection A3.3, A3.8

# Scigncurs and Habitants

# True or False

## Is the statement true or false

| 1. A habitant was someone who the king treated well with a seigneurie |      | False |
|---|------|-------|
| 2. Seigneurs were given seigneuries, which were large areas of land   |      | False |
| 3. Habitants were farm families that lived on seigneuries             |      | False |
| 4. Habitant signeurs  | True | False |
| 5. Seign  | True | False |

# Questions

## er questions below

1. What is the differ bet Qur and a habitant?

2. What responsibilities did the habitants have

e sei \_\_\_\_\_nd? Was it fair?

# **Making Connections**

What does this remind you of in your life?

| Name:     |  |  |
|-----------|--|--|
| 1.9521110 |  |  |

### Citizens of New France

#### Population of New France

In 1666, the population of New France was 3215 people. Most of the people living in New France were men, with a total of 63 percent of the population. The 37 percent of women in New France is way below the population breakdown we see today in Canada, as a make up 50.48 percent of the population breakdown we see that the 49.52 percent of the population breakdown we see today in Canada, as a make up 50.48 percent of the population breakdown we see today in Canada, as a make up 50.48 percent of the population breakdown we see today in Canada, as a make up 50.48 percent of the population breakdown we see today in Canada, as a make up 50.48 percent of the population.



#### Jobs in New Fran

Only men coul who had jobs when special status compared to the listed below.

| Occupation | Explanation  |
|------------|--|
| Soldiers   | New France needed to send its soldiers   |
| Carpenters | The land was undeveloped. They enter wild houses and buildings                 |
| Masons     | A mason is a builder who works with stone. Mas buildings                       |
| Tailors    | A tailor makes clothing. Remember, they hand crafted clothing in<br>New France |
| Merchants  | Merchants were people who owned stores. They bought and sold items.            |
| Bakers     | Bread represented 60-85 percent of the total food intake in New France         |
| Millers    | A miller someone who works in a grain mill which produces grain for breads     |

Curriculum Connection A1.1, A3.6

## Citizens of New France

Reflection

There weren't nearly as many opportunities to find jobs in New France. Which job would you choose? Explain why.

Questic

er the questions below

1. Why do you the e we n living in New France in 1666?

2. Which jobs do you think were the most imp

True or False

Is the statement true or false

| 1) In 1666, the population of New France was 3215 people                  | True | False |
|---|------|-------|
| 2) There were more women than men in New France                           | True | False |
| 3) Farmers had the best jobs in New France                                | True | False |
| 4) One of the most important jobs was soldier to defend New France        | True | False |
| 5) Women could become skilled workers and have jobs like masons or bakers | True | False |

| Name:                 |  |  |
|-----------------------|--|--|
| Name:                 |  |  |
| T. White S. C. Stern. |  |  |

Curriculum Connection A3.3

## Society in New France

#### People of New France

The King of France was the most powerful man in New France. He controlled both France and New France, but he hired a **viceroy**, who he put in charge of New France. The viceroy was the governor who made decisions on behalf of the King. Learn more about the other people of New France below.

#### Governor

The **governor** was the top government official in New France. His job was o make sure the king got what he wanted out of New France. He inted people to the sovereign council, who were in charge of making setting taxes that people needed to pay. The governor was the king of the colony in New France.

#### Intendant

The intendent was ranking and official who was responsible for finance and justice in New France: who is someone not born into the upper class.

#### Members of the Sovereign Council

The members that were given the job to do de on laws and taxes were also part of the upper-class society. They had more power than the average citizen.

#### Captain of the Militia

The captain of the militia was in charge of the militia in New France.

able-bodied men between sixteen and sixty who could defend New France dn't have formal training to be a soldier. The captain of the militia had the job to orgethem into squads and get them prepared with weapons to fight if needed.

#### Citizens

Most of the people that lived in New France were average citizens with jobs like farmers, bakers, merchants, and tailors. These people performed services for each other so that society could function.

#### Criminals

France sent some of their criminals to New France. Most of these criminals were prisoners who were thieves. They were given the option of serving out their prison sentence in France or be sent to New France. If they decided to be shipped to New France, they became indentured servants who could get their freedom back after three years slave labour.

Curriculum Connection A3.3

## Society in New France - Questions

#### True or False

Is the statement true or false

| 1. An indentured servant could get their freedom back after 2 years |      | False |
|---|------|-------|
| 2. The governor of New France was like a king in the colony         | True | False |
| 3. The Viceroy was second in command                                | True | False |
| 4. The intermade sure the sovereign council did their jobs          | True | False |
| 5. A company shorn into a wealthy and powerful family               | True | False |

#### Quesi

er the questions below

1. What do you renture to had to do if they decided to come to New France?

2. Do you think the regular citizens had muck have any involvement in the government? hoy s were? Did they

#### **Making Connections**

What connections can you make to this reading?

Curriculum Connection A1.3, A3.1, A3.3

### The Expulsion of the Accidens

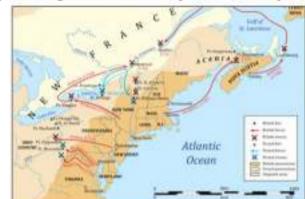
#### Tension Between France and Britain

France and Britain were both trying to colonize North America as fast as possible. Both countries were building up colonies and expanding their territory. The rivalry

between the two countries was growing as they fought battles all over the world. Both countries had other colonies in Asia, Africa, and the Caribbean. They were both fighting for global dominance.

#### The Loss A

Acadi e od colony in North American tithe defend it as well as New France. A prost day New



Brunswick, PE Dec. I be British attacked Acadia from Boston, New England. They tool role Acadia, but they returned it to France in the Peace Treaty of 1697.

#### War of Spanish Succession

While Spain and France were a vary of Sritain took advantage. From 1702 to 1713, the British gained continuous cadia (e. Caribbean. In 1713, leaders from France and Britain negotiated a process and the Treaty of Utrecht

Each side agreed to give back some of the Company of the Britain offered to give back the Caribbean islands of the France of the British.

Each side agreed to give back some of the Company of the France of the France of the France of the France of the British.

#### The Expulsion of the Acadians

Britain may have owned the land of Acadia, but it was still French Acadians living there. The British were worried the Acadians would revolt against them. So, the British tried to make them take an **oath of allegiance**, which would mean they promised to be loyal to Britain.

The Acadians declined as they were French Catholics, and the British were English Protestants and religion was very important to the Acadians. Life in Acadia was becoming hostile as British soldiers harassed the French population. The French often returned the favour by harassing the British in the colony.

This continued until 1755, when Britain decided enough was enough. From 1755 to 1760, about 10,000 out of 12,000 Acadians were expelled from the region. Most of the French Acadians went to the French colony of Louisiana.

Curriculum Connection A1.3, A3.1, A3.3

## The Loss of Acadia - Questions

#### Multiple Choice

#### Circle the correct answer

| 1. The people that originally lived in Acadia were | French    | British    |  |
|--|-----------|------------|--|
| 2. France decided to give away which colony?       | Caribbean | Acadia     |  |
| 3. What was found on the Caribbean colony?         | Iron      | Sugar Cane |  |
| 4. Did the sign the Oath of Allegiance?            | Yes       | No         |  |
| 5. The was signed in which year?                   | 1755      | 1713       |  |

#### Visualizing

Dr

we cturing while you were reading. Explain the picture

#### Questions

#### Answer the questions below

1. Why did France give up Acadia instead of the Caribbean colony?

2. Why did the British expel the Acadians?

British Ships Siege of Louisbourg

cessful, but



#### French and Indian War (7 Years' War)

The title of the war would indicate that the French battled the First Nations, however that is untrue. The war was between France and Britain, although most of the First Nations allied with France as they had developed stronger trading relationships.

War began as the English also wanted control of the fur trade. This war between France and Britain was also called the 7 Years' War, and it was happening in North America. as well as in Europe. With the French and First Nations being allies, they often fought together a British forces.

#### Major Ba

The F sted 9 years with battles occurring all over the northeast e won major battles at Fort Henry, and Fort Ticonderoga. parts o while Britain w g, Fort Niagara, and Fort Duquesne. The final battle between the tv of Abraham, outside France's largest and most powerful city, Queb

#### Siege of Louisbourg

Louisbourg was a fortress built French in New France, It was the largest European style fortress in North American the time and it was designed to defend New France from British attack, In 1758, the

British completed their second siege of Louisbourg they had to return the fortress to the French after a pe

The second siege was different! James Wolfe and Go their naval warships and armies to Louisbourg and surrounded fortress and took control of France's warships. They set one on fire one away to join the British fleet. The French citizens of Louisbourg were to France while the French soldiers were brought to Britain as prisoners soldiers decided to burn down the fortress to make sure it couldn't be returned to the French.

#### Battle on the Plains of Abraham

The Battle on the Plains of Abraham was for control of Quebec City, which was France's first and largest settlement. Britain knew if they could take it over, they would end up defeating France. General James Wolfe brought 5000 well-trained troops to the battle against General Montcalm of France who had 4,500 troops (some First Nations and militia).

They met on the Plains of Abraham, where Montcalm ordered his men to fire. While they fired, the British troops waited and got 2 bullets ready. The disorganized French fire

was mostly misses, while the British hit with both their shots, sending the French back in retreat. Britain won the battle and eventually took control of present-day Canada.

Curriculum Connection A1.3, A3.1, A3.3

## Seven Tears' War - Questions

#### True or False

#### Is the statement true or false

| 1. Louisbourg was a fortress built by the French | True | False |
|--|------|-------|
| 2. The 7 Years' War was actually 9 years         | True | False |
| 3. The French had an alliance with the Iroquois  | True | False |
| 4. The 7 Y                                       | True | False |
| 5. The British and down the Louisbourg fortress  | True | False |

#### Ques

#### er the questions below

1) Who won the win? Whey win?

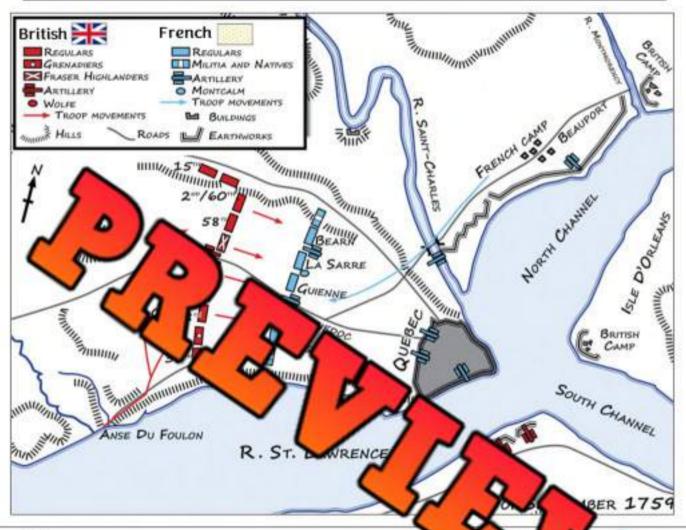
2) Why were Britain and France fighting against ear involved?

er? the First Nations get

#### Summarize

#### Write the important information from the reading

### Bettle of the Plains of Abrehem



#### Description

The English attacked the French from the west. The English traviled and came on to land at Anse Du Foulon.

They had more soldiers than the French as you can see with the rect representing the regular soldiers. Each rectangle is a battalion that was legal a captain. They only one had artillery compared to the French's 3. You can see the British had setup camp across from Quebec, where they also attacked from.

As you can see, the two sides formed battle lines. The French attacked first by shooting from far distances, around 50 metres. The English lay down on the ground to avoid being shot. Most of the bullets missed. While the French reloaded, the English moved forward to 35 metres away. They shot two bullets, which were enough to destroy the French lines. The French fled the field, losing the battle. French survivors became prisoners of war.

You can see that the First Nations fought with the French against the British. On the British side, the Fraser Highlanders fought with the English. They were a battalion from Scotland.

General James Wolfe fought with the 28th battalion. He was shot in the attack, but still advanced with them to Quebec. Montcalm, who led the French, was also shot and killed.

Curriculum Connection A13, A31, A33

### Bettle of the Plains of Abraham

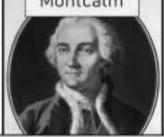
The Battle of the Plains of Abraham was fought between France and England, England had been taking over land with their powerful army all over Atlantic Canada and had their sights on France's strongest village - Quebec City.



What do you notice about how Quebec City was protected?

The battle between the two sid battle. Their last words are written putes. Both leaders died in the

Montcalm



"I am happy that I shall not live to see the surrender of Quebec"

After hearing of victory praised. I die contented.

God be opy, at ease)

- 1) Why was this battle so important to control of "The New World"?
- 2) What are your thoughts of both generals last words?

Name:

Name:

# Treaty of Paris, 1763

#### French Surrender

After the French lost the Battle of the Plains of Abraham, the French governor surrendered to the British commander. This officially made Quebec part of Britain and under British control.

As possible the surrender, the French governor put together a list of demands to protect the people in Quebec. He wanted to make sure that French culture lived on in Quebec. The surrender of the control.

#### List of demand

- 1. Allow senior go ent for to France
- 2. The Roman Catholic reason of the approximation of the Roman Catholic reason of the Roman Catholic re
- French merchants must be dt

ng as before

#### The Treaty of Paris, 1763

The Seven Years' War ended in 1763 when both Britain and France signed The Treaty of Paris. Both sides agreed to return some of the territory they had captured from the other in war. The Seven Years' War was fought between Britain and France in many different parts of the world, but it was now ended.

In North American, The British kept control of New France, which meant it remained a British colony. New France was now history, and British rule in North America was growing stronger.

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Treety of Peris, 1763



#### Questions

Name:

Answer the questions below

2) W granted most of the demands from France after their surrent Did and properties you?

#### Reaction

If your land was taken over,

o de Auld you ask for?

1)

2)

#### True or False

Is the statement true or false

| 1. The French surrendered after the Battle of the Plains of Abraham   | True | False |
|---|------|-------|
| 2. The French made a list of demands so French culture could continue | True | False |
| 3. New France was returned to France in the Treaty of Paris           | True | False |
| 4. The French in Quebec would never have to fight against France      | True | False |
| 5. The French were able to continue practicing the Catholic Religion  | True | False |

| Name:    | 60   |
|----------|------|
| Name:    | Oll  |
| Truitie. | - 00 |

### The British and the First Nations

#### Britain and the First Nations

The British won the land of New France from the French, but they still had to make peace with the First Nations communities in this region. The Ojibwe were a strong First Nation community that lived in the area of New France. The Ojibwe chief, named Minweweh told a group of British fur traders:

Although V conquered the French you have not yet conquered us! We are not your slaves. Th woods, and mountains were left to us by our ancestors. They are our in ert with them to none. Our Father the king of France, employed our young men vr nation. In his warfare, many of them have been killed; aliate and it is our custo time as the spirits of the slain are satisfied. Your king has not sent us any to any treaty with us, so, we are still at war.

#### Chief Pontiac and the First Nation

divag The chief of the Odawa First Nation, Chie reat leader. He brought together an alliance of First Nation communities to Critish, His attacks agaib against British forts was called Pontiac's War beb m Chief Pontiac.

#### Siege on Fort Detroit

In May 1763, the Odawa, Ojibwe, Pottawatomie, and the Wenda Cack Detroit. The five-month long siege didn't end in the First Nations cap send a signal to the British that the First Nations were tough enemies.

#### More Sieges on Forts Around the Great Lakes

More First Nations joined Obwandiyag (Pontiac) as they attacked more forts around the Great Lakes. They took control of Fort Sandusky, For St. Joseph, Fort Miami, For Ouiatenon, and Fort Michilimackinac.

#### Fall of Obwandiyag (Pontiac)

Obwandiyag Over time, his alliance between First Nations fell. The other nations didn't want to fight any longer, so they went back to their territories. Even Obwandiyag's own nation, the Odawa banished him from their nation as they felt he was becoming too powerful.

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but it did

Chief

Curriculum Connection

A1 3, A3 1, A3 7, A3 8

Curriculum Connection A1.3, A3.1, A3.7, A3.8

### The British and the First Nations - Questions

#### True or False Is the statement true or false

| 1. The British gained respect for the First Nations after they attacked Fort Detroit | True | False |
|--|------|-------|
| 2. Chief Pontiac didn't want to fight and was ready to give up his land              | True | False |
| 3. Pontiac was a good leader who made an alliance between First Nations              | True | False |
| 4. The First were sent peace treaties and gifts from the British                     | True | False |
| 5. Chief legend in his First Nation and never left them                              | True | False |

### Questions

sw the questions below

| Who was Chief diyar          | emembered for?             |
|------------------------------|----------------------------|
|                              |                            |
|                              |                            |
|                              |                            |
|                              | 5/2/                       |
| What did the Ojibwe chief te | ll the British fur traders |

#### Questioning

Write 2 questions you have about the reading

| 1) |  |  |  |
|----|--|--|--|
| 2) |  |  |  |

Name:

62

## Germ Werfere - Fort Pitt

#### **Epidemic**

An epidemic is an infectious disease that spreads throughout a community in a particular

time. Smallpox is a very contagious disease that is easily spread from person to person. The symptoms of smallpox were high fever, skin rash, headache, backache, vomiting, and diarrhea.



#### Germ Warfa

The British Port Sing a cruel tactic, called germ warfare. At Fort Pitt in present day
Pittsb Port Sing a cruel tactic, called germ warfare. At Fort Pitt in present day
metal boxes. The state of the first Nations these boxes and said the boxes contained
special powers.

They said not to see turned to their villages so that everyone could get the special powers. Fire pook out these blankets, they passed them around so everyone could get ne p

This was germ warfare because the likets work of with smallpox, which was a disease that the First Nations people had no immediate to. The oldiers had gotten the blankets from a hospital that was treating patien ox six yex was a common disease in Europe that the Europeans could fight to we. The first Nations members.

Pretty soon after the blankets were passed around, a terrible state of throughout the villages. Even the doctors in these First Nation villages got a and died.

Anyone who contracted the disease died. It is estimated that smallpox killed up to 93 percent of the First Nations people.

William Trent, who was captain of the Pennsylvania
Militia, wrote of a meeting with two First Nations: "we gave
them two Blankets and a Handkerchief out of the Smallpox
Hospital. I hope it will have the desired effect."



Historians can't agree whether this tactic was the cause of smallpox spreading, or if it was a natural spread due to the close contact these two groups had when trading.

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## Germ Werfere - Fort Pitt

#### Multiple Choice

#### Circle the best answer

| 1. An epidemic is the spread of                                | Disease    | Fire   |  |
|--|------------|--------|--|
| 2. A symptom of smallpox is                                    | Joint pain | Rash   |  |
| 3. Who gave the First Nations blankets infected with smallpox? | British    | French |  |
| 5. Historian positive that germ warfare ever happened          | True       | False  |  |
| 5. The Nations killed by epidemics                             | 58%        | 93%    |  |

#### Questions

#### swate questions below

1. Why did smallplant the Europeans?

2. What do you think of William Trent?

#### Fill in the Blanks

#### Fill in the blanks from information in the reading

- 1. The First Nations had no \_\_\_\_\_\_ to fight diseases.
- Some Europeans used smallpox as a \_\_\_\_\_\_.
- 3. Smallpox was one of the worst \_\_\_\_\_\_ in history.
- 4. At Fort \_\_\_\_\_, the British are accused of using germ warfare.
- 5. Smallpox is a very \_\_\_\_\_\_ disease because it spreads easily.

### Pontice Wers - Fort Michilimackinae

Pontiac's attack on Fort Michilimackinac was clever and well thought out. Learn more about Fort Michilimackinac and Pontiac's attack on it by answering the questions below.

Research

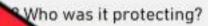
Answer the questions below



1) Where was Fort Michilimackinac? Describe its location. Was it near water?



2) Why was Fo







### The Royal Proclamation of 1763

#### Peace Between Britain and the First Nations

After many smaller battles between the British and the First Nations, the British understood that they needed to make peace with the First Nations. They knew they would have to concede some areas of Quebec to Nations, so they signed the Royal Proclamble In line would have its for settlers.

#### Royal Proclama 3 Key

- Britain would now territories in the region
- Quebec was created with the polam
- The area to the south of Quebec was given to Nat
- All the French Canadiens living on First Nation
- Only the British government could buy land from the second second
- This meant anyone moving west in Canada could not buy land from
- Anyone involved in the fur trade on First Nation territory needed to see from the government

#### Results for the First Nations

The Royal Proclamation of 1763 was positive for the First Nation communities as it secured land for them. It also made sure that smaller First Nation communities couldn't sell their land and be taken advantage of by wealthy British citizens.

Many British colonists were upset, as they had to leave the land they had already purchased. It also meant they couldn't move west until more treaties were signed. The Proclamation returned land and secured a future for the First Nations in North America.

SON BAY COMPANY

AND

PROVINCE OF

OVEREC

NO

Curriculum Connection A1.3, A3.1, A3.2, A3.3

### The Royal Proclamation of 1763

#### True or False

Is the statement true or false

| 1. The First Nations benefitted from the Royal Proclamation               | True | False |
|---|------|-------|
| 2. The British colonists did not like the Royal Proclamation              |      | False |
| 3. Wealthy Europeans would buy land from the Indigenous for unfair prices |      | False |
| 4. The Proc gave the British government control of the fur trade          | True | False |
| 5. The Onded after the Proclamation                                       | True | False |

#### Questions

swathe questions below

1) What was the Roo ocla ocla Who did it benefit and who was upset by it?

2) Which key points of the Royal Proclamation (find the String? Explain.

### Inference

What do you think happened eventually? Were colonist allowed to move west?

| R.I | ame:                                   |  |  |  |
|-----|--|--|--|--|
| IN  | ame                                    |  |  |  |
| 9.7 | 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |  |  |  |

Curriculum Connection A1.3, A3.1, A3.2, A3.3

### The American Revolution



#### What was the American Revolution?

The British colonists that landed in what is now the USA, set up lives of their own after leaving England. They left Britain because it was crowded, and they wanted to start families in a new place. Most settlers were hard working and motivated to make a better life for themselves and their families.

As the British settlements in North America became larger and more powerful, they began to go against what British authority were them to do. The settlers wanted to govern themselves they saw fit, instead of how the British leaders were warren was broke out between Britain and the collection.

#### The 13 Comies

There were many to some only 13 at the time, but not all of them to rely to rely 13 of the colonies fought 3rit of the Surope in a war that lasted from 1775 to 17 to of the lies included New York, New Jersey, Virgin re

#### Why Rebel Against Britain?

The raising of taxes in the colonies was the later than the revolution. The Seven Years' War had cost Britain almost \$5 billion who mone feat the First Nations and the French. The end of the war meant the Thirt secure from attack, as they didn't have as many enemies in the ea. Thirteen Colonies should pay for some of the cost in the form of specific taxes.

Some legislation was passed that forced citizens of these colonies to the strain for certain things. For example, the Sugar Act in 1764 forced people to pay extent ax on many goods like sugar, cloth, wine, and coffee. The Stamp Act in 1765 required people to buy government stamps to put on all legal documents and printed materials like newspapers. The Townshend Act in 1767 was an extra tax placed on glass, paper, lead, paint, and tea.

#### The War

The two sides began with arguments over how they should proceed, however, nothing changed. Britain wanted to continue to rule the New World (North America), and the settlers wanted to govern themselves. As the situation got worse, war between the two sides began.

Paul Revere, an American silversmith, was on lookout. He rode his horse back to the settlers to warn them that the British forces were coming. The settlers were ready and won a series of battles, (1) Battle of Lexington and Concord, (2) Capture of Fort Ticonderoga, and (3) Battle of Bunker Hill. The British finally signed the Paris Treaty in 1783, which gave the settlers their independence from Britain. All British troops had to leave the 13 colonies.



cisions were being

the decision making.

#### Name:

## The American Revolution - Questions

#### Questions

#### Answer the questions below

1) Why did the settlers rebel against Britain?

2) Do the taxe the right to tax the Americans more? Explain using examples of so

#### Visualizing

Draw what you were pict

mile y

reading. Explain the picture

#### True or False

Is the statement true or false

| 1. The Townshend Act put a tax on glass and tea                                     |  | False |
|---|--|-------|
| 2. Britain taxed the 13 colonies because they had spent so much on the 7 Years' War |  | False |
| 3. Britain believed they had spent almost \$5 billion on the 7 Years' War           |  | False |
| 4. Americans got their independence from Britain in 1775                            |  | False |
| 5. The Sugar Act forced people to pay extra tax on coffee and wine                  |  | False |

## The Quebec Act

#### Tension in Quebec

After the Royal Proclamation in 1763 was signed, life in Quebec was still contentious. The French Canadiens outnumbered the English Canadians 3–1. but they were living under

British law and didn't like how Britain was still pushing the Protestant religion in Quebec. The First Nation communities were still loyal to the French king and didn't like how Britain was expanding territory.

#### Join Amer Revolution?

Quebec the Thirteen Colonies
that you go Pritish control in North
America e Fren Nations groups
were deciding wor in the
revolution or co. live up h rule.

The British go bent not be good for Britain of Join revolution, as they might loop pass the Quebec Act to make the not how



America. Therefore, they decided to ier in Quebec.

#### The Quebec Act

With the French and First Nation communities unhouse the Barriel the pressure to make changes. The Quebec Act was signed in 17 ch growing French rights:

- Made the territory of Quebec larger by including the control of the
- Allowed French Canadiens who were Roman Catholic pate hold so they could have input on law making in Quebec
- Replaced the British set of laws in Quebec with the previous end brought back the seigneurial system)
- · Kept the British North Americans out of the Great Lakes

#### Response

The French had benefitted from each of the rights above. They could now have some say in which laws they would have to live by. They were also not discriminated against based on their religion. They could now participate on Council even if they were Roman Catholic.

The First Nation communities benefitted from the Quebec Act as well. With British colonists being kept off the lands of the Great Lakes, the First Nations had their land back in this area. The Huron were especially grateful for the passing of the Quebec Act, as they occupied much of the land around the Great Lakes.

The British North Americans disliked all of the rights that were given to the French. They now had to accept differences in religion in Quebec and had to live by French civil law now. They didn't want to live by the French Seigneurial system, and they didn't want to give up their land around the Great Lakes.

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## The Quebee Act

#### True or False

#### Is the statement true or false



| 1. The British North Americans were happy with the Quebec Act             |      | False |
|---|------|-------|
| 2. The Quebec Act gave the French Canadiens more rights in Quebec         |      | False |
| 3. The Quebec Act expanded the territory of Quebec to include Nova Scotia | True | False |
| 4. The First were happy to get the British out of the Great Lakes area    | True | False |
| 5. The Fr   | True | False |

Ques. s

swer the questions below

- 2) Who benefitted the most from the Quebec Act was affected by it?
  - 2) Who benefitted the most from the Quebec A was was affected by it

#### Making Connections

What does the reading remind you of?

### The United Empire Loyalists

#### Fight or Leave?

If a war broke out in your province, what would your options be? You could stay and fight, or you could pack up and leave. When the Thirteen Colonies in present day America decided to fight back against Britain, many of the people living in these colonies didn't want to fight Remember, many of these people were settlers from Britain!

Patri

The p who d ay and





people who were Brit Brit Want to fight were called Loyalists.

#### The American Revolutionary

As the war went on, it became clear the triots win against Britain. The Loyalists were in a tough spot as the Patriots were appy that the Loyalists were not fighting with them. Many of the Loyalists has been apply to be well.

#### United Empire Loyalists in Quebec

The British government wanted to help the
Loyalists get out of the Thirteen Colonies. They
feared many of these Loyalists would turn
against Britain after more pressure was applied.

So, the government offered Loyalists free land in Quebec, Nova Scotia and Prince Edward Island. Remember, the map looked different back then as Quebec included land from present day



United Empire Loyalists Statue

Ontario. About 50,000 Loyalist settled in these British colonies from 1775 – 1783. They would have to work like pioneers to build homes, farms, roads, and churches.

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# The United Empire Loyalists

#### True or False

#### Is the statement true or false



| 1) Loyalists wanted their freedom from Britain    |      | False |
|---|------|-------|
| 2) Loyalists wanted to keep their ties to Britain | True | False |
| 3) Loyalists were given free land in BNA          | True | False |
| 4) About 5 oyalist settled in British colonies    | True | False |
| 5) Loyal A and got jobs in factories and shops    | True | False |

#### Quest. is

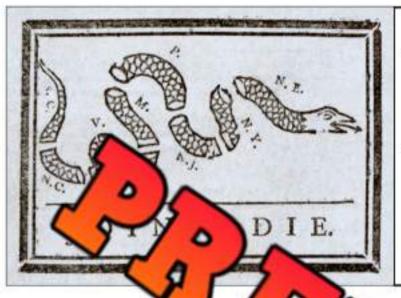
#### wathe questions below

| 1) Who were the mpir                | Where did they go? |
|-------------------------------------|--------------------|
|                                     |                    |
|                                     |                    |
| 2) What is the difference between a | patriot and st?    |
| <u> </u>                            |                    |
|                                     |                    |

#### Making Connections

Does this situation remind you of anything in your life?

## Petriot or Loyalist?



#### Join, or Die - By Benjamin Franklin

- This picture was created to encourage the people of the colonies to join in on the fight against Britain
- Many of the people in the colonies had difficult decisions: join and fight against your old country, or leave and face the possibility you might have to fight the Patriots

#### Loyalist or Patriot?

Check out the arguments h

#### Arguments to be a Loyalist

- Being part of the British Empire is g
- Taxes are being paid to Britain because they against the French and First Nations
- American colonies would be weak without Britain. attack again.
- Colonies profit from trade with Britain
- The Colonies are too far away from Britain to have government? Parliament. It's just not practical.

#### Arguments to be a Patriot

- People have rights that the government can't take away, like property
- The taxes are too high, and people cannot afford to pay them
- Colonists have no voice in British government (parliament). "No taxation without representation!" This means they won't pay taxes unless they can have a voice in the government to help make laws and set taxes that make sense to them.
- They don't want to belong to Britain because they could never participate in British government as it is too far away
- The British soldiers in the Colonies are causing riots, violence and death

ave us peace

ations could

### The Constitutional Act of 1791

#### Tensions in Quebec

After New France was taken over by the British, the Quebec Act was signed which expanded Quebec to stretch from present day Ontario to northern Quebec and Labrador. Before 1791, Quebec with France Sive province that was divided with France Sive Six Settlers, and American Ovalist.

The Britican Lists living in Quebec were the many of the care and the

laws like the Seigneuria d the



civil law. This obviously caused conflict y English law.

#### The Constitutional Act of 1791

The British government decided to divide the land a point of the time were and Lower Canada. Both the French and English per a company as they would get a province that suited their cults of the Lower Canada (present day Quebec) and most of the English lived in (present day southern Ontario).

The Constitutional Act is also known as the Canada Act. It had 4 main objectives:

- Guarantee the same rights to all people living in British North America
- 2) Give the two provinces the right to set taxes and set up legal administration
- Allow Upper and Lower Canada to create their own provincial legislations that represented their people and their culture
- Give authority to new leaders in each colony named the Lieutenant Governor. They
  would become representatives of the British government in the Canadas.

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### The Constitutional Act of 1791

#### Questions

Answer the questions below

1) What was the purpose of the Constitutional Act of 1791?

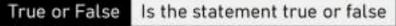


Diagram

Draw the boundar line Upper and Lower Can Label the colonies



Flag of Lower Canada

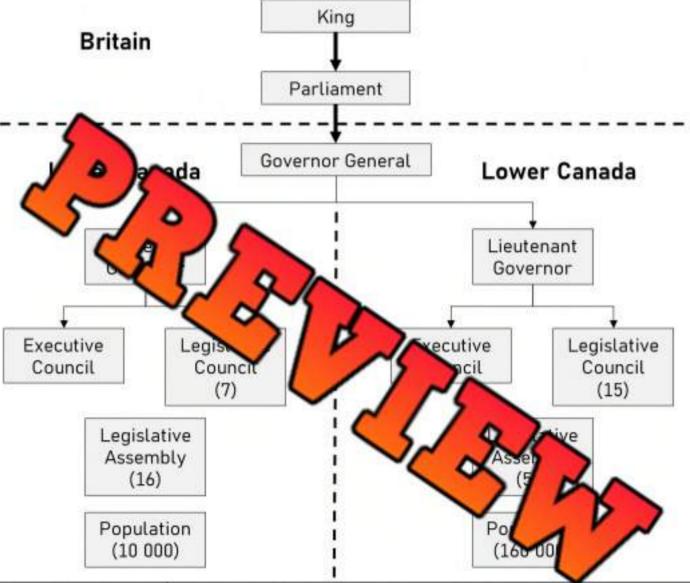




| 1) Most of the French lived in Upper Canada                                |  | False |
|--|--|-------|
| 2) Today, most of the French speaking Canadians still live in Lower Canada |  | False |
| 3) The province of Quebec was split to make the English and French happy   |  | False |
| 4) The English preferred the Seigneurial System                            |  | False |
| 5) The American Loyalists were mostly French                               |  | False |

### Constitutional Act - Political System

#### The Constitutional Act (1791)



| King                 | Most powerful person who lives in Britain  |
|----------------------|--|
| British Parliament   | A council of elected officials in Britain were next in charge  |
| Governor General     | One person who represented the King in both Canadas  |
| Lieutenant Governor  | One person who represented the King in each of the Canadas   |
| Executive Council    | A group of powerful men chosen by the Governor General to make decisions for each province of Canada               |
| Legislative Council  | A group of powerful men chosen by the Governor General to pass<br>bills that were made by the legislative assembly |
| Legislative Assembly | A group of elected people who make bills (potential laws)  |
|                      |  |

### Higrant Fishers in Newfoundland - Seal Hunt

#### Migrant Fishers in Newfoundland

Migrant fisherman were Europeans who came to Newfoundland in early spring to fish massive amounts of cod. They left to return back to Europe in late summer or early fall.

The first migrant fisher was named Hugh Elliot from Bristol, England. He travelled to Newfoundland, caught 36 tons of cod fish and returned back to Europe to sell the cod.

Migracy fishery was a seasonal industry that required most workers to temporally live in New and during the spring and summer while cod was plentiful. Spain, France, Portugal all sent migrant fishermen to Newfoundland.

Fisherm would pats that could hold up to 1000 cod. When their boat was full, they'd bring the cone. The workers on shore would remove the fish head, guts, a cone. The workers of salt to preserve it.

#### Resident or Permanent Fi

The migratory fisheries stop as late 1700s. This happened because are the France and England. This meant the two too busy fighting to send fishermen to its finding to send fishermen to send fisherme

As war raged on, many settlers from Euro countries moved to Newfoundland to escape war in Europe. With the growing population in Newfoundland, established.



fish

#### Seal Hunt in Newfoundland

Cod could not be fished in the winter, so many fishermen caught seal instance by used a gaff, which was a two-metre-long wooden pole with an iron hook and spike attached to

one end. Seal hunting began in 1723 and grew rapidly with the setup of resident fisheries.

The Inuit had been hunting seals for thousands of years in the northern parts of Newfoundland and Labrador.



However, they hunted what they needed. The commercial hunting of seals was new, and it led to kill rates of 400,000 per year. This led to a sharp decline of the seal population, which affected the Inuit as it was a main source of food for them.

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Curriculum Connection A1.2, A3.6, A3.8

### Higrant Fishers in Newfoundland - Seal Hunt

#### True or False

Is the statement true or false

| 1) Migrant fishers stayed in Newfoundland to fish all year round      |      | False |
|---|------|-------|
| 2) Migrant fishers fished in Newfoundland in the spring and summer    |      | False |
| 3) Eventually migrant fishers stayed in Newfoundland and caught seals | True | False |
| 4) The seal d no effects on other communities in Canada               | True | False |
| 5) A gaff   | True | False |

Defina

date terms below mean?

| Migrant<br>Fisher     | 3/3/ |
|-----------------------|------|
| Resident<br>Fisheries |      |
| Seal Hunt             |      |

Visualizing

Draw what you were picturing while you were reading. Explain the picture

### First Nations in BNA - Joseph Brant

#### The First Nations in BNA

where. His

During the American Revolution, the Mohawk and other Communities in the Haudenosaunee Confederacy fought with the British against the Americans in the American Revolution. The Mohawk's leader was named Thayendanegea, but also went by Joseph Brant. Thayendanegea wanted to the Mohawk community back to BNA, but he wasn't sure



believed to First Month of the Haldimand on each side of Grand River,

previously been given away in the Treaty of Paris in 1783.

which is in southern (s) (s) The region was called the Haldimand Tract.

The only problem was a was cupied by other First Nations. The
British government reached agree and the Upper Canada Treaties. These treatments are strongly from First Nations like the
Ojibwe and Mississauga to the British government by course land as they saw fit.

The government then gave Thayendanegea to differ people. The tract of land was called the Six Nations Reserves that had ever been given (about 2750).

#### New Leadership

Haldimand was a fair leader who rewarded the Six First Nations with land for their war efforts. When Haldimand was no longer commander, new governors began to take land away from the reserve and gave it to non-indigenous people.



Today, the Six Nations Reserve is less than 10 percent of what it was back when Haldimand gave it to them. In Fact, in 2006, the government sold a 40-hectare plot of land from the reserve to a housing developer. The Six Nations took a stand against this land dispute in what is now called the **Caledonia Land Dispute**. Looking at the map, you can see how small the reserve is now compared to the entire Haldimand Tract they owned before.

| Name: |  |  |  |
|-------|--|--|--|
|       |  |  |  |
|       |  |  |  |
|       |  |  |  |
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### Unit Test - New France & ENA

#### Multiple Choice

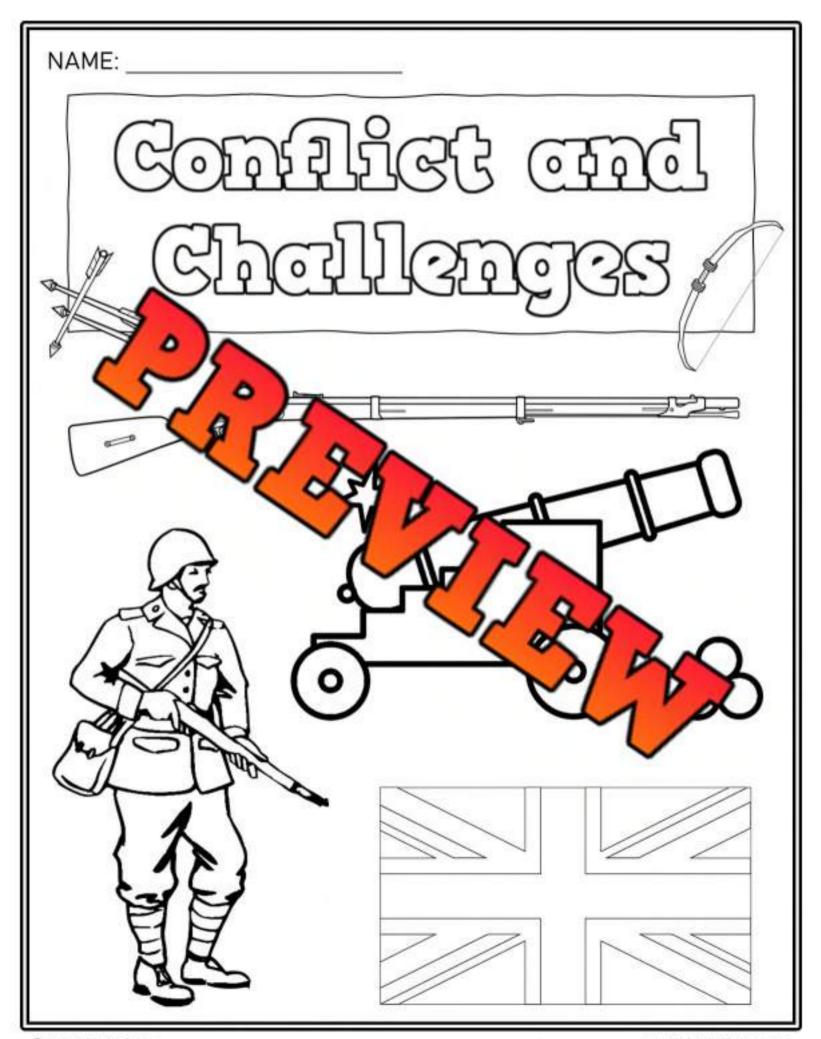
#### Circle the best answer. Only choose 1 answer!

1. Migrant Fishers fished in which province? 2. The coureurs des bois were... a) Lower Canada a) Licensed French fur traders b) Newfoundland b) Unlicensed French fur traders c) Nova Scotia c) Licensed British fur traders d) New Bru d) Unlicensed British fur traders 3. When a First Nation member 4. Which religion was most popular in New France? have; a) Métis a) Protestant b) Indigenous b) Jesuit c) Catholic c) Aboriginal d) Native digenous eaty gave Britain control of Acadia? Which was not a popular job in and Friendship a) Carpentry b) Soldier c) Manufacturer d) Miller d) Treaty 7. Alexander Mackenzie worked for which 8. Joseph Brant company? leader of which First a) Hudson's Bay Company a) Ojibway b) Northeast Trading Company b) Haudenosaunee c) Northwest Trading Company c) Wendat d) The British Parliament d) Mohawk 10. Which agreement meant European settlers 9. Many Loyalists moved to where? couldn't buy land directly from the Indigenous? a) Upper Canada a) Treaty of Utrecht b) Lower Canada b) The Royal Proclamation c) Nova Scotia/New Brunswick c) The Constitutional Act d) Quebec City d) The Quebec Act

Grade 7 History Unit CANADA, 1800–1850: CONFLICT AND CHALLENGES

|      | Curriculum Expectations  | Pages That<br>Cover the<br>Expectations  |  |
|------|--|--|--|
| B1.1 | analyse social and political values and significant aspects of life for some different groups and communities, including First Nations, Métis, and Inuit communities, in Canada between 1800 and 1850 and assess similarities and differences between these values and aspects of life and those in eighteenth-century Canada  | 20 - 33,<br>42 - 43,<br>77 - 83  |  |
| B1.2 | analyse some of the challenges facing individuals, groups, and/or communities, including First Nations, Métis, and Inuit individuals and/or communities, in Canada between 1800 and 1850 and ways in which people responded to those challenges  | 6 - 19,<br>38 - 41,<br>44 - 45,<br>60 - 74   |  |
| B1.? | analyse the displacement experienced by various groups and communities, including Indigenous communities, who were living in   | 14 - 19,<br>34 - 39,   |  |
|      | product that contains 143 pa<br>total.   | ges  |  |
| B3.2 |  | 46 - 59,   |  |
|      | including wampum delts exchanged, and explain the significance or some or these agreements for different people and communities in Canada identify key political and legal changes that occurred in and/or affected Canada during this period and explain the impact of some of these changes on various individuals, groups, and/or communities, including First Nations, Métis, and Inuit  | 46 - 59,<br>73 - 74<br>20 - 33,<br>46 - 57,<br>60 - 74,                                    |  |
| B3.2 | including wampum delts exchanged, and explain the significance of some of these agreements for different people and communities in Canada identify key political and legal changes that occurred in and/or affected Canada during this period and explain the impact of some of these changes on various   | 46 - 59,<br>73 - 74<br>20 - 33,<br>46 - 57,  |  |
| B3.2 | including wampum betts exchanged, and explain the significance of some of these agreements for different people and communities in Canada identify key political and legal changes that occurred in and/or affected Canada during this period and explain the impact of some of these changes on various individuals, groups, and/or communities, including First Nations, Métis, and Inuit individuals and/or communities identify key social and economic changes that occurred in and/or affected Canada during this period and explain the impact of some of these changes on various individuals, groups, and/or communities, including First Nations, Métis, | 46 - 59,<br>73 - 74<br>20 - 33,<br>46 - 57,<br>60 - 74,<br>79 - 83<br>28 - 33,<br>40 - 43, |  |

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## War of 1812 Causes

#### 1) American Expansion

The British had given the Americans
Ohio Valley, but many First Nations
groups still lived in this region. The
Americans were supposed to respect
the First National ammunity's land
claims, but



from the American have to step in, or the Americans might go further north and the son and Lower Canada.

#### Fur Trade and First No.

The United states were upset Prit In the Single Single Great Lakes area as they were helping the First Nations fight the Americans directly, but they were supplying the First The British weren't fighting the encouraging them to fight back against the Americans.

The United States government told Britain that the setting middle of the American and First Nation conflict, the Americans would have a setting middle of the Britain.

#### 3) American Jingoism

The Americans had built up a strong military of patriotic soldiers who were to fight.

American Jingoism is when politicians talk about aggressively seeking military action. Many politicians believed that since they had the military, they might as well use it.

The jingoists spread word that American troops should invade Upper and Lower

Canada because they would catch the British North American colonies off guard and prevent
them from ever attacking the United States. Many American politicians believed that if they
attacked British North America, many of the people in BNA would welcome the Americans.

They believed that many of the citizens of BNA were unhappy because they were ruled by Britain and the Monarchy. Thomas Jefferson, a retired president of the USA, said that capturing British North America was "a mere matter of marching."

### War of 1812 - Brock and Tecumsch

### **Declaring War**

In June 1812, The United States declared war on Britain. The Americans had a large army of troops that they planned to attack across the border and into the British North American colonies.

The British had a strong naval force, but most of their ships were in Brown The warships they did have fought in the Great Lakes and the ence River. The British Colonies had a long bord of 200 kilometres and they only had 10,000 Lish trough the residents in BNA would be need as an and



In 1812, the position 2000. These residents lived in scattered settlements from the Green 6 gion antic Ocean.

The population of the United Stanfith

#### Sir Isaac Brock and Tecumseh

Two leaders of the British colonies are remember their military strategies and success - Sir Isaac Brock, a and Tecumseh, a Shawnee First Nation chief. These two through American soil attacking many forts in the USA with one 700 soldiers (300 regular troops and 400 militia) and 600 First Nation

A militia is a military force that has able-bodies civilians who are no diers. The people who make up a militia could be farmers, bakers, or blacksmiths. Militiamen do not have military training. The militia in BNA were forced to fight American soldiers in order to defend their land.

Tecumseh and Brock had a strong military alliance that brought First Nations and the British together. Tecumseh was the first Indigenous member to serve at the rank of general in the British Army. Tecumseh and the Indigenous decided to fight with Britain as they worried the US expansion into their land would mean they would lose it forever. Tecumseh hoped that with a win, the British would return the land to the First Nations.

### War of 1812 - Brock and Tecumsch

### Multiple Choice Circle the correct answer The USA 1. Who declared war in the War of 1812? Britain The USA 2. Who had a larger population in 1812? BNA 3. How many militia fought with Sir Isaac Brock? 1000 400 4. Who course a fighter in a militia? Farmers Soldiers Nation members fought with the British? 600 800 5. How m er the questions below Ques 1) What is a mil 2) Why was the relationship between the First Nati ortant in the War of 1812? Visualizing Draw what you were picturing while you were reading. Explain the picture

### Brock and Tecumsch - Battles

#### Fort Michilimackinac and Fort Dearborn

The two leaders acted quickly after the war began in hopes they would catch the Americans off-guard. Two weeks after war was declared, the two leaders brought their armies into American land and attacked Fort Michilimackinac. The American Commander was unprepared and gave up the fort without a bullet even being fired.

Brock and Tecumseh continued into Chicago and attacked Fort Dearborn. This time, a law set Nation force ambushed the Americans, killing many of them and taking ov

Detr

The 10s oldiers with Brock and Tecumseh to Detroit, where they planned to attack more old to the were inside the fort. Being outmatched severely, Brock to try fear into General Hull's American army. Brock and Tecumseh had mer outside the fort. This made it appear that more soldiers were there is usual and a fire. They also had the militia dressed in scarlet uniforms the soldiers. Then Brock and Tecumseh had their soldiers march around the fort. They also had the militia soldiers to make it seem like they had more men than they did.

Hull was worried for his safety as he had also sees at Dearborn and Michilimackinac. He decided to wave the way again and were 2500 muskets, 33 guns, and many other supplies that out analyses. These early wins secured the western border.

### Queenston Heights

In October 1812, American troops rowed across the Niagara River and into Upper Canada. They invaded Queenston and captured the high ground where the British had been stationed. Major-General Brock rushed to defend the area. He took a small group of soldiers and tried to slow down the American attack so that the British could send reinforcements.



Brock's plan worked, but as he charged the Americans in the opening moments of the attack, he was shot by an American sniper. Brock died instantly. The battle was won by the British, but a fearsome leader was lost.

### War of 1812 - Brock and Tecumsch

### Multiple Choice

### Circle the correct answer

| 1. The British won how many muskets at Fort Detroit?    | 1000      | 2500    |
|---|-----------|---------|
| 2. Which American surrendered in Detroit?               | Brock     | Hull    |
| 3. How many bullets were fired at Fort Michilimackinac? | 5000      | 0       |
| 4. Which bandid Brock die in?                           | Queenston | Detroit |
| 5. The ear the war secured which area for Britain?      | East      | West    |

Ques

### ver the questions below

1) How did Sir

2) How did Brock and Tecumseh trick the American or

Describe

How would you describe Sir Isaac Brock. Choose 3 adject and explain.

| Adjective | Explanation |
|-----------|-------------|
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |
|           |             |

## Wer of 1812 Bettles

#### Battle at York (Toronto)

In April 1813, the Americans won an easy battle against the British. They stormed York, which is now present-day Toronto, with 2,700 soldiers, who defeated the 750 British and Ojibwa men. The Americans burned down the town before sailing back home.

#### Stoney Creek

On June 6, 1813, 3,500 Americans were camping near Stoney Creek. It was the middle of the night with the British decided they could catch the Americans off-guard. A group of 700 British initiated a surprise attack as they marched closer to the Americans in silence. For the dark was no easy task for both sides, as many American and British soldier frighting, the Americans retreated back to the American side of the Niver.

#### Beaver Dams (

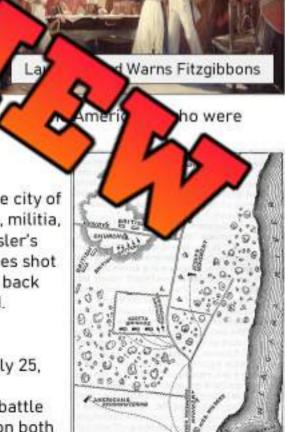
Laura Secord was ewife a hotel with her husband in the American Lieutenant-College teler deplans to attack the British. She had kilometres on foot to tell British hone the news. He was able to prepare a fore soldiers and 250 Mohawk warriors to annuan the Americans. As Boerstler's American forces move forward on the British, the Mohawk shot at them from the sides. The battle ended as the Mohawk surreforced to surrender.

### Crysler's Farm

In November 1813, 2000 American soldiers attacked the city of Montreal against a force of around 900 British soldiers, militia, and First Nations. The 900 men set up a defense at Crysler's farm, which was on a path to Montreal. The British forces shot back at the advancing Americans who finally retreated back across the border. The attack on Montreal was stopped.

### Lundy's Lane

The last time the Americans invaded Canada was on July 25, 1814, at Lundy's Lane in Niagara Falls. A force of 1500 Americans attacked a British force of about 1700. This battle was the bloodiest in the War of 1812 as over 800 men on both sides were killed. The battle lasted well into the night before the Americans retreated back to American soil.



BATTLE

## Wer of 1812 Bettles - Questions

### True or False

### Is the statement true or false

| 1) Laura Secord warned Fitzgibbon that the Americans would attack Thorold     | True | False |
|---|------|-------|
| 2) The Mohawk warriors defeated the Americans in the Beaver Dams battle       | True | False |
| 3) The Americans defeated the British at Crysler's Farm and attacked Montreal | True | False |
| 4) Lundy's the bloodiest battle in the War of 1812                            | True | False |
| 5) The ded present-day Canada was at Lundy's Lane                             | True | False |

### Questions

### er questions below

| 1) Who was Laura Se            | X           | bered for? |     |   |
|--------------------------------|-------------|------------|-----|---|
|                                | ~[          |            |     |   |
| 2) Who won the Battle of York? | What happen | ed?        | 20  |   |
|                                |             |            | 3/2 | _ |

|   |    | е. |    |    |   |   |    |
|---|----|----|----|----|---|---|----|
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|   |    |    |    |    |   |   |    |

Which battle was the most interesting to you? Explain why.

### Infographic Assignment - War of 1812

An infographic displays information about a topic in a visually appealing way. Infographics use pictures, statistics, and facts to explain a topic.

#### Directions

Create an infographic about one of the battles from the War of 1812. Choose a battle, and find statistics and facts you can showcase on your infographic.

Researci

Plan your infographic below

- 1) What is the name of it that you will display on your infogra
- 2) Find 5 statistics/facts are attle. The following: deaths in the battle, number of soldiers in the battle, outcome of the battle, Generals or leader the battle, Generals or leader the battle.

1

2

3

5

4

## Burning of the White House

#### **Burning of the White House**

Most of the battles took place on what is now
Canadian territory as the Americans were
invading the British colonies. Towards the end of
the war, Brit in retaliated for the Americans
burning do so in Upper Canada.



In Stroop burned down York (Toronto), the capital of Canada. On August 24, 1814. Troop command of Vice Admiral Sir Alexander Cockburn and Major General har into Washington, the capital of the United States. The British marched and y had be expressed by over American forces at Bladensburg, Maryland, earlier in the account of the United States.

The people living in Was nearby. The British troops met little resi city. They burned down the following:

- ✓ Major rooms in the US Capitol building
- ✓ Library of the Congress
- ✓ The House and Senate
- ✓ The Supreme Court
- ✓ The White House
- ✓ The Navy Yard and several American warships

### after hearing about lost battles and set fire to much of the



#### Aftermath

A Union Flag (British Flag) was raised over Washington. With the government buildings burning down, the British troops decided not to burn down the houses and residential areas. This kept the city of Washington intact.

A strong thunderstorm with a tornado hit Washington the next day. The strong storm killed British and Americans in the area. The British decided to return to their ships only 26 hours after they had taken Washington.

## Burning of the White House

### True or False

Is the statement true or false

| 1) The US burned down the Capital of the Canadas, York           | True | False |
|--|------|-------|
| 2) The British retaliated by burning the Capitol and White House | True | False |
| 3) The British stayed in Washington and kept control for 5 years | True | False |
| 4) Washing ame a part of the Canadas                             | True | False |
| 5) The B   | True | False |

### Question.

er re questions below

- 1) Why did the British do
- 2) What parts of Washington did the British burn

### Visualizing

Draw what you were picturing while you were reading. Explain the picture

## The Treaty of Chent

### What was the Treaty of Ghent?

The Treaty of Ghent was a peace treaty that ended the War of 1812 between the United States of America and Britain. It was signed. December 24, 1814 in the neutral city of the Relgium. The treaty seen the two counts that by the Relgium of the Rel



Both countries are grown fewer. The military situation was balanced, so neither side had achieved as in which the British, it was a war of survival, trying to keep their territories in No. ica and States, they wanted their control of North America, so they were hoping at the party into BNA.

### Results of the Treaty

When the delegates from Britain and the United me both had their demands. The U.S. proposed 15 initial points, to which agree he, and two more were added. The final 11 articles became the Treaty of the second sec

There were no major victories on either side in the treaty as the same territory they had before the war.

The Americans had abandoned their primary goals to expand their territory and stop the British from boarding U.S. ships on the high seas looking for British deserters. The British kept the British North American colonies and they continued disrupting trade between Napoleon's France and the United States.

The War of 1812 led to two major benefits in the development of Canada. First, it brought the French, English, and First Nations communities together as they needed each other in order to defeat the United States. Second, it showed other countries that the people in BNA were tough and capable of defending their territory.

# The Treaty of Chent

|    |    |   |   | _  | 1000 |
|----|----|---|---|----|------|
| Tr | ue | 0 | г | -a | se   |

### Is the statement true or false

| 1) The US succeeded in expanding their territory                          | True | False |
|---|------|-------|
| 2) The US succeeded in stopping the impressment happening on the Atlantic | True | False |
| 3) Both sides had balanced militaries                                     | True | False |
| 4) No one War of 1812   | True | False |
| 5) The two in Ghent because it was a neutral location                     | True | False |

### Question.

### er the questions below

| 1) What was the The | Gher | 0 7 | his a loss for the United States? |     |
|---------------------|------|-----|-----------------------------------|-----|
| `                   | J~ / | V   |                                   |     |
|                     |      |     | No.                               | - 1 |
|                     |      | V / |                                   |     |
|                     |      |     |                                   |     |

2) What two benefits did the War of 1812 have d



### Reflection

How do you think life would be different for us now if the Americans had won the War of 1812?

### Upset Canadians in Upper & Lower Canada

#### Life in BNA After the War of 1812

Many residents in Upper and Lower Canada were not happy with life in the British colonies. The governments that ruled over them were undemocratic, meaning the

people making the laws were not elected. Farmers were also having challenges as wheat prices were declining and farmland was difficult to find. Lastly, the seigneurial system in Lower Canada was not working for everyone living there.

### Governme

The politic to the ware a small group of people who had all the power to the Canada. In Upper Canada, they were known the ramination of the called the Chater to the called the cal



This meant to ple I Canadas had no say in which laws they should live by. The presentatives to be clittle and the government. They could propose a law, but it could be turned to the governor. The people working in the Expression of the lative Council were part of the elites who were friends with the Government.

The governments from Upper and lower Car we cooperating with each other. They had disputes that were affecting the late in Sanadas. One example is how they could not agree on improvement and the sanadas that would have benefitted trading opportunities for both colonic

#### Farmland

Farmers were having trouble selling their crops as the economie were in decline. The farmers in BNA had been making good profits all crops to these European countries, but that was no longer.

The declining economies drove down the prices in most agricultural products, including wheat and lumber. The government was not willing to step in and help the farmers with the problem. This upset farmers all over BNA as they were going bankrupt.

### Dissatisfaction of the Seigneurial System

The French had used the Seigneurial system in New France for many years before the British came to BNA. When BNA came about, Upper Canada ditched the Seigneurial system, but Lower Canada kept it. The system worked well for many years until the seigneurs decided to increase the taxes on the habitants who lived on their lands. They were allowed to under the legislation in the Quebec Act. The habitants were obviously unhappy as they didn't appreciate the seigneurs being greedy.

23

Curriculum Connection B1.1, B3.3, B3.5

## Upset Canadians the Canadas - Questions

### True or False

Is the statement true or false

| 1. The Legislative Assembly could make and pass laws easily                  | True | False |
|--|------|-------|
| 2. The governments in Upper & Lower Canada could not agree on transportation | True | False |
| 3. Famers were struggling because the European economies were in decline     | True | False |
| 4. The seig system was a British system that was working well                | True | False |
| 5. The happy because they didn't want to pay more taxes                      | True | False |

### Question

er the questions below

### Making Connections

What connections can you make to this reading?

| <br> | <br> |  |
|------|------|--|
|      |      |  |

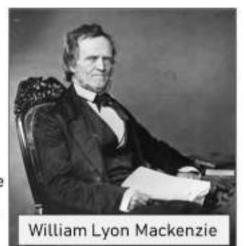
### The Rebellion of 1837 in Upper Consider

### Peaceful Protesting

force against t

A Scottish man by the name of William Lyon Mackenzie was one of the first people to stand up against a corrupt government. For many years, the government was undemocrate as government leaders received their jobs because the from rich and powerful families.

Macken eacefully protesting with the people living Canad ded it was time to use physical



### The Rebellion of 1837 My add

In December 1837, Mackenzh. The part of the government system. They can ed rifles gun swords, and clubs as the 400 supporters march.

Yonge Street.

Canadas.

Mackenzie's rebellion against the government was a short one, as the Lieutenant-General named Bond Head, was ready with his military. As the supporters began attacking the military, the military outgunned them, and Mackenzie and his troops fled in panic.

Mackenzie was hoping his rebellion could be successful, just like the American Revolution, but it wasn't.



Bond Head

Mackenzie was forced to flee to the countryside before he crossed the border to live in the United States. He returned to Toronto years later when the government forgave the rebels and gave them amnesty. He was fortunate, as many other rebels were hanged as traitors.

## The Rebellion of 1837 in Upper Canada

### True or False

Is the statement true or false

| 1. A rebellion is when the people act violently against their government        | True | False |
|---|------|-------|
| 2. Mackenzie was successful in his rebellion, just like the American Revolution |      | False |
| 3. Mackenzie's troops were well trained soldiers from wealthy families          |      | False |
| 4. The rebenance happened because the government was undemocratic               | True | False |
| 5. Macker anged for being a rebel and a traitor                                 | True | False |

Ques.

er the questions below

1) What was Ma pring to with the Rebellion?

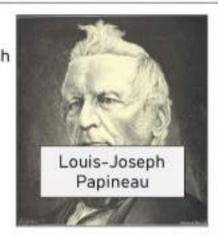
2) How did the Rebellion end? Who won the battle?

Summarize Summarize the reading by including the main idea and import information

### Lower Canada Rebellion

#### Patriotes in Lower Canada

In 1834, a wealthy French man in the Elites, named Louis-Joseph Papineau published the Ninety-Two Resolutions. These resolutions were a list of demands that Papineau wanted the government to change. Papineau was a leader who had thousands ch supporters who were called Patriotes.



### Rebellio Canada

Althous pinear thing to do with violent rebellions, his Patriotes were not interested in page 1.

### The Battles of Saint

An armed Patriote force of the seign or in November 1837 at Saint-Denis.

The Lieutenant-Colonel Francis else apture the manor. The army failed however, and had to withdraw, we cansit the saint-Charles, 100 armed rebels from the ote colone charged by the Canadian army. Many of the rebels were killed.

#### Battle of Saint-Eustache

The government in Lower Canada wanted to send a message to any rebels, that if they go against the government, they will be killed or taken prisoner. In December, the British sent



1200 well-armed soldiers to an armed Patriote camp at Saint-Eustache. The rebels tried to defend themselves, but they were no match for the 1200 trained soldiers. About 100 rebels were killed and many more were taken as prisoners.

#### Outcome

The government had proven their point, that rebellions would not be tolerated and that the rebels would not have enough power to defeat the government.

### Lower Canada Rebellion

### True or False

Is the statement true or false

| 1. Papineau encouraged people to rebel violently against the government |      | False |
|---|------|-------|
| 2. Patriotes were people who wanted change in the government            |      | False |
| 3. The Patriotes won a battle at Saint-Denis against the government     |      | False |
| 4. The governt killed many of the Patriotes                             |      | False |
| 5. The reb ower Canada was unsuccessful in defeating the government     | True | False |

Ques.

er the questions below

2) What was the outcome of the rebellions? Do you they did the government?

Summarize Summarize the reading by including the main idea and important information

### Stopping the Rebellions - Durham Report

### Effects of the Rebellions in Upper and Lower Canada

The rebellions were unsuccessful in overthrowing the government, but they still had an impact on the British government. The government knew they would need to make changes in order to stop future rebellions.

The British government sent John George Lambton, Lord Durham, to Quebec City in June 1838, to find out more about rebellions and to prepare a report that would make a mendations for avoiding future rebellion



Lord Durham as back to the British government in He su



### 1. Unite the two colonia and Sanada

Durham saw that the French of the control of the co

He also thought that the English in Upper Canal Canal Canal Canal Canada. Assimilate in this situation meant that the Canada. Assimilate in this situation meant that the Canada Canada. Assimilate in this situation meant that the Canada Cana

### 2. Introduce responsible government

Responsible government is a democratic government where the people get to vote in representatives who pass and reject laws that are in the best interest of all the people. In the current system, the wealthy elite were only passing laws that made sense for the wealthy elite.

Durham suggested that a responsible government would stop the rebellions as the people would be happier with how they are represented in the government. The change would mean that the elected legislative assembly would not have their laws rejected by the appointed lieutenant-governor or the legislative council.

### Stopping the Rebellions - Durham Report

### True or False

Is the statement true or false

| Durham wanted to assimilate the French into the English culture     Durham suggested Britain unite the two colonies |      | False |
|---|------|-------|
|   |      | False |
| 3. Durham believed that responsible government would stop the rebellions  |      | False |
| 4. Durham d the British to assimilate into French culture   |      | False |
| 5. Durhan b French and English could get along if given some time   | True | False |

### Questi

er the questions below

| ) Why did Britan d Dur            | ite his report? What were his two suggestions? |
|-----------------------------------|--|
|                                   |  |
|                                   |  |
|                                   |  |
|                                   |  |
| \ Why did the British want the Er | and to assimilate 27 % assimilate              |

Why did the British want the French to assimilate.



### Questioning

Write 3 questions you have about the reading

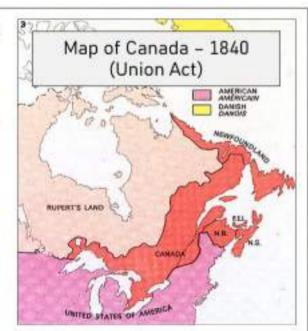
| 1) |  |
|----|--|
| 2) |  |
| 3) |  |

## Durham Report - Union Act

#### Outcome - What did the British Government Decide?

The British government responded to Durham's report by passing the Union Act in 1840. They had listened to Durham's first suggestion and decided to join the Carres together.

The of Canada was created, and the two r anada West (formerly Upper da) an ast (formerly Lower Canada). The r ow Consequence its own province, with litics of



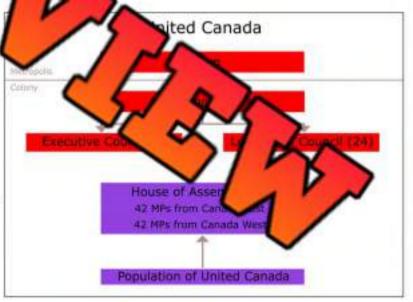
Britain was still in Canad vernment General and Crown were still

at the top of chain of command

### Single Parliamentary System

The major difference was that the two regions were now governed together.

Both regions would get 42 representatives that would work in the House of Assembly. These representatives would make laws for the people in the province of Canada.



The French language was banished from official government use.

The British government turned down Durham's suggestion of granting responsible government. Britain wanted to keep Canada loyal to Britain, which is why they kept the government structure the same.

The Legislative Council were still loyal British men who could turn down bills (laws) made by the elected members in the House of Assembly.

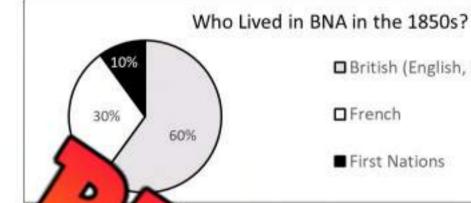
### Word Search

Find the word bank words in the

| W | ord Bank |             |
|---|----------|-------------|
|   | Union    | Act         |
|   | Canada   | Responsible |
|   | Province | Government  |
|   | East     | Durham      |
|   | West     | Report      |

| ٧ | W | W | K | W | M | D | D | R | 5 | - | / | X | ٧ | 0 | C |
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| P | Т | C | Α | I | F | M | 5 | 0 | 0 | E | s | Z | J | R | В |
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| 5 | R | E | s | P | 0 | Ν | 5 | I | В | L | E | X | J | 0 | G |
| Ε | E | P | R | 0 | ٧ | I | N | c | E | R | J | z | 0 | D | K |
| W | Т | N | E | Μ | N | R | E | V | 0 | G | U | C | 5 | D | т |

# The People of BNA



- British (English, Irish, Scottish)
- ☐ French
- First Nations

Questi er the questions below

- 1) Interpret the
- 2) Think of today's population makeup. I

ent from this time period?

| Jobs                | Daily Wage |
|---------------------|------------|
| Carpenter – Male    | \$1.50     |
| Bricklayer – Male   | \$1.25     |
| Tailors - Male      | \$0.95     |
| Dressmaker – Female | \$0.31     |
| Dairy Worker        | \$0.13     |

| Cost of Ite       | Price  |
|-------------------|--------|
| Blanket           | P 25   |
| Cotton Shirt      | \$0.56 |
| Butter (kilogram) | \$0.32 |
| Eggs (dozen)      | \$0.16 |
| Loaf of Bread     | \$0.10 |

Reflection

What did you find interesting from the information above? Write 3 things.

## Bettle of Seven Oaks

### Hudson's Bay Company (HBC) and Northwest Company (NWC)

The HBC was a fur trading company established by the English. The NWC was a competing fur trading company that was established in Montreal, with French roots. The Metis worked with the NWTC, as many were voyageurs.

#### Pemmican Proclamation

In 1814, Low Selkirk, who had ownership in the HBC, issue to export the polamation that made it illegal to export the from the Red River colony he had made and provided in the little bits that are then the left of the fat and berries.



With a state of the state of th

The Metis and one sin the were angered because they didn't live in the colony, so they need to them. They saw the proclamation as a direct attacky the French, Metis, and the NWC.

### Battle of Seven Oaks

The Battle of the Seven Oaks happened beck the Metis and members of the NWC were frustrated with the HBC and Lord Selkirk. Here is how the battle happened.

- On June 19, 1816, around 60 Metis, First
   Nations men led by Cuthbert Grant, went
   west to deliver permission to the NCW canoe
   brigades on Lake Winnipeg. This was an
   illegal action because of the new permission.
- They were met by 28 men from HBC that were either officers or employees.
   Robert Semple led the group of men.
- The two groups fought in hand-to-hand combat as well as with guns.
- For the HBC, Semple as well as 20 of the HBC men died. For the Metis, one person died in the attack
- Grant and his brigade of NWC traders went on to capture Fort Douglas, which was the headquarters of the Red River Colony.



## Bettle of Seven Oaks

### Questions

### Answer the questions below

1) What was the Pemmican Proclamation? Who made it and why?



### Summarize

Write a sumar





### True or False

### Is the statement true or false

| 1) The NWC was an English fur trading company                            | True | False |
|--|------|-------|
| 2) Many NWC traders were Metis   | True | False |
| 3) Selkirk feared there wasn't enough pemmican for his incoming settlers | True | False |
| 4) The HBC won the Battle of Seven Oaks                                  | True | False |
| 5) Pemmican was made of dried bison meat, fat, and berries               | True | False |



## The Sayer Trial

### **Hudson's Bay Company Monopoly**

If you wanted to make money selling furs, you had to be a licensed fur trader. Before 1821, you could work for the Northwest Company or the Hudson's Bay Company. In 1821, the HBC bought the NWC. This meant if you wanted to trade furs, you had to work for the HBC.

### Who Was Sayer?

Sayer was fur trader from the Red River area in Manitoba. He had worked for many trading operations. He started with the coureur des bois and then the NWC. After the merging of the NWC and HBC, he began king for a from 1828–1829.

In 1829 from is job working for the HBC. This didn't stop Sayer though, who have fur training the continued fur to g will be a Norman Kittson who lived south of Manitoba, in North Davo

In 1849, Chief Factor lle ed Sayer and many of his men for illegally fur trading.

### The Trial

On the day of Sayer's trial, 300 armed Metis stood outside the courtroom where Sayer we be found guilty or innocent. Louis Riel backed Sayer and helped organize the Metis support. James Sinclair, was Sayer's lawyer.

A jury of seven English speakers and five French speakers found Sayer guilty, but they

recommended mercy. John Ballenden, the man who arrested Sayer asked there be no punishment for the guilty man. Ballenden was from the HBC, but he felt the pressure from the 300 Metis armed men outside the courtroom.

The judge agreed and let Sayer and the rest of his men to leave without any punishment. Outside of the courtroom, the Metis men shot their guns in the air and chanted, "le commerce est libre", which in English means, "trade is free."

### End of a Monopoly

The trial led to the end of the HBC monopoly on fur trading. In 1870, the trade monopoly was officially abolished, and the HBC could no longer control the fur trade. Any entrepreneur could trap, buy, sell, and trade furs without interference from the HBC or government.



## The Sayer Trial

### Questions

### Answer the questions below

1) What does an HBC monopoly on fur trade mean? What did it mean for other fur traders?



Visualizing

Draw what you were picty

e y e reading. Explain the picture



### True or False

### Is the statement true or false

| 1) Sayer was an English fur trader                                   | True | False |
|--|------|-------|
| 2) Sayer was a Metis fur trader who worked with both the NWC and HBC | True | False |
| 3) Sayer was caught illegally trading without a fur trading license  | True | False |
| 4) Sayer started his fur trading with the HBC                        | True | False |
| 5) Sayer had the support of 300 armed Metis men                      | True | False |

### Huron Treet Treety and the Saugeen Treety

54

### **Huron Tract Treaty**

In 1827, Upper Canada was looking to expand its territory.

The population was growing and there was valuable land along Lake Huron. At the time, ten "Chiefs and Principal Men of the Chippewa Nation" made the agreement with the British ment.

First exchange for 1,100 pounds



per year. At the problem is, the shade has not gone up with inflation.

Buying that many acres of the shade has not gone up with inflation.

Year in 2020 is an unfair amount.

The treaty is called To cre cerves for the First Nations to live on.

Of the 2,182,000 acres, they kept 2,000 the eserves.

### The Saugeen Treaty

Starting in 1836, the Saugeen Ojibway Nation (Starting in 1836, the

The treaty is called 45 ½ and it gave up 1.5

million acres of land in exchange for economic assistance from the Crown. The Crown took the land and offered them proper houses on small reserves. The Crown told them to become civilized by cultivating the land and assimilating with the White people in the area.

Assimilate means to join the culture and way of life of the people around.

Treaty 45 ½ produced 4 more reserves for the SON to live on. The houses were built by the British on these reserves for the SON to use. The reserves were on the Peninsula north of Owen Sound.

### Huron Treet Treety and the Saugeen Treety

### Questions

### Answer the questions below

1) What is the Huron Tract Treaty (29)?



Opinion

What do you think about the con

Nations received for their land?



### True or False

### Is the statement true or false

| 1) The 1,100 pounds is increased each year to keep up with inflation          | True | False |
|---|------|-------|
| 2) 1,110 pounds is not a lot of money these days for that much land           | True | False |
| 3) The Saugeen Ojibway received houses and reserved land for their land       |      | False |
| 4) The British wanted the Saugeen Ojibway to assimilate                       | True | False |
| 5) The reserved lands are about half the size of the land that was given away | True | False |

## The Hiec Bey Incident

### No Treaty, No Mining

When the Royal Proclamation was issued in 1763, it declared that no settlers could take land or buy land from First Nations. This meant in order to use land in present-day

Canada, a treaty needed to be established between the First Nations and the Crown.

### Mining in Mica Bay

In 1841, me aluable minerals were found in Mica Bay. It is found on Lake Superior, near Say is Sanada West found out about about a found in Mica Bay, so the lared it is found in Mica Bay, and the lared is found in Mica Bay.



### Mica Bay Incident

Shingwaukonse was unhappy with the pand to perform their resources. They knew this land was not part of the land they endered was called unceded land, meaning it was not given to the Crown in any tree unceded land, been given to the Canadian government by the enough to part of any treaties. The chiefs of the First Nations or other in growth unceded land as they are the titleholders.

Shingwaukonse demanded that the profits made from e se found in the area be shared with the Anishinaabeg. Canada West i Shingwaukonse and kept digging. The Quebec and Lake Superior minerals found, which is \$15 million today.

The three chiefs - Shingwaukonse, Nebenaigoching and Oshawano travelled with several hundred Metis and Anishinaabeg to Mica Bay. They took a small cannon from the lawn of the Crown lands. When they arrived, they demanded payment or the closure of the mine. The Mine's manager, John Bonner decided to close the mine, worrying they would be attacked by the armed Metis and Anishinaabeg.

The actions of the Chiefs forced Canada West to negotiate with the Indigenous groups. In 1850, the Robinson-Huron and Robinson-Superior Treaties legitimized the mines. No longer could the government use unceded land. The Metis and First Nations formed an alliance that allowed them to change the way the Canadian government used unceded lands.

## The Mica Bay Incident

### Questions

### Answer the questions below

1) What is unceded land? Who has control over it?

2) Why sy over the minerals found in Mica Bay?

Opinion

If you were the manager

e, would you have done? Explain.



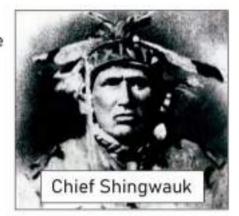
### True or False

### Is the statement true or false

| 1) Canada West began mining on unceded land in Mica Bay                          | True | False |
|--|------|-------|
| 2) The area is still unceded land  |      | False |
| 3) The land is now part of the Robinson-Huron/Robinson-Superior Treaties         |      | False |
| 4) Canada West decided to pay part of the \$15 million they made                 |      | False |
| 5) James Bonner decided to keep the mine going and fight the Metis/First Nations | True | False |

## Chief Shingweuk's Vision

### What Was Chief Shingwauk's Vision?



lands own d by Ir our should be owned by the Indigenous. He worried that the Crown would the person on the Indigenous.

### 1) Education

In 1832, Chief Shingwauk should be just as important. In 1832, Chief Shingwauk should be just as important. Indig.

The school Chief Shingwauk would build was a second war." The Governor sent William McMurray, a missionary to help be ach ach ach war. McMurray brought some of the resources needed for the school Sin missionary, he focused on teaching Christianity to the Indigenous in action civilize them. The Teaching Wigwam unfortunately led to the creation of residential mools.

### 2) Resource Rights

Shingwauk was one of the lead negotiators and signatories to the 1850 Robinson-Huron Treaties. Shingwauk understood British law and therefore, his First Nation's resource rights. He knew the Crown had no rights to take minerals from unceded lands in Mica Bay.

Therefore, he was able to negotiate with the Crown, the Robinson-Huron Treaties. The Indigenous peoples in the region gained recognition of hunting and fishing rights, an annuity (annual payment), and a reservation from the surrender of specific lands for each signatory community. The annuity is worth £1,000 paid to the First Nations in the region.

## Chief Shingweult's Vision

### Questions

### Answer the questions below

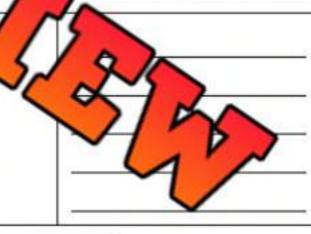
1) What was Chief's Shingwauk's vision? What were his two goals?



Visualizing

Draw what you wer victu

ere reading. Explain the picture



### True or False

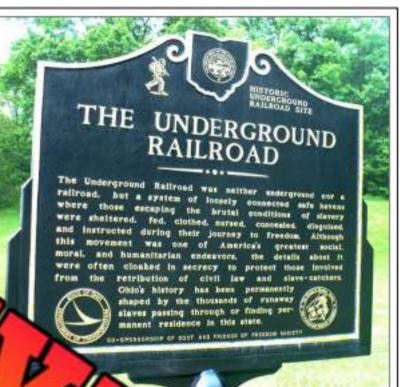
### Is the statement true or false

| 1) Chief Shingwauk snowshoed from Sault St. Marie to Toronto         | True | False |
|--|------|-------|
| His vision for a school was for Indigenous to learn without settlers |      | False |
| 3) The name of his school was the Teaching Wigwam                    |      | False |
| 4) Shingwauk didn't understand British law or Indigenous land rights |      | False |
| 5) Shingwauk signed the Robinson-Huron Treaties                      | True | False |

## The Underground Railroad

### What was the Underground Railroad?

The Underground Railroad was not a railroad that was underground. Instead, it was a secret network of people who disagreed was slavery and worked to free slaves are American South to the free to Canada. Between 000 and an away slaves were brown as his America through the lergreen Railroad.



### Act to Limit Slavery

In 1793, a provision in the Act to Limit Say states and staved person who reached Upper Canada became free upon arriva. War any of the Americans from the south fought against "Black me they fought against free black men from BNA. Word spread to the enterior war are so the that they could be free in BNA, which led to many runaway slaves using the Railroad.

### How the Underground Railroad Worked

The Underground Railroad was not an actual railroad and it did not run on railway tracks. It was a complex, secret network of people and safe houses that helped slaves in the Southern plantations reach freedom in the North. The network used symbols and codes to communicate with each other. A "conductor" was someone who guided fugitive slaves along points of the Underground Railroad, using different modes of transportation over land and water. The terms "passengers," "cargo," "package" and "freight" referred to escaped slaves.

## The Underground Railroad

### True or False

Is the statement true or false

| A conductor drove the train that the slaves rode to freedom     Escaped slaves were referred to as cargo, packages, and freight     The Northern states and Canada didn't agree with slavery |  | False<br>False<br>False |  |      |       |
|--|--|-------------------------|--|------|-------|
|  |  |                         | 4. The Act Slavery meant any slave who entered Canada was now free | True | False |
|  |  |                         | 5. Word s ne Northern states that BNA was home to free black men   | True | False |

### Questi

er the questions below

1) What was the und R ow did it work?

2) How did Canada help slaves in the south? Do

k the

states liked BNA?

Write

Write your own message on a sign that explains the underground railroad

## Underground Railroad Codes

Background

The Underground Railroad was very dangerous for all people involved

The underground railroad was a secret movement by abolitionists who were against slavery. The people who worked to help slaves escape used code words to keep their movement a secret. If a fugitive slave caught, they would be branded, jailed, flogged, sold backers are even killed.



Queers y eople who helped fugitive slaves

travel along the discool Conductors didn't drive any trains, but instead they helped runs ves by them with safe passage to and from stations. If a conductor was calculated as well. Many conductors were free people who were slaves in

### Railroad Codes

Know your L ground a Sodes

| Baggage                 | Escaping Slaves                                   |
|-------------------------|---|
| Bundles of Wood         | Fugitives to be expected                          |
| Freedom Train           | The Underground Railroad                          |
| Load of Potatoes        | Escaping slaves hidden under farm produce a wagon |
| Heaven or Promised Land | Canada  |
| Shepherd                | Conductor – Someone who escorts slaves            |
| Station                 | Place of safety – Safe-house                      |
| Station Master          | Keeper of a safe-house                            |
| Parcel                  | Fugitive to be expected                           |
| Moses                   | Harriet Tubman                                    |

## Underground Railroad Quilts

Most slaves were unable to read and write, as they were never allowed to go to school. In many states, it was illegal to teach slaves how to read and write. This meant they couldn't use words to communicate. Instead, slaves would make quilts using symbols to represent a specific instruction or direction.

When a runaway slave saw a quilt hanging on a home, they could get information that could help them on the path to freedom.

To learn the meaning of the symbols, stories and songs were told at night around the These stories and songs had the coded messages in them to teach all slaves the gof the symbols.

#### Quilt

#### Check out the quilt symbols below



#### Monkey Wrench

Get ready! Gather your tools to build shelters, navigate your journey, or defend yourself along the way

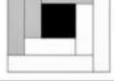


Take a mountain to out of view. Follow the path made by bear tracks, they can lead you to water and food



#### C ods

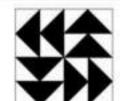
Refer evel stinated to free or stinated to stinated to stinate or stinated to stinated to stinate or stinated to stinate or stinated to stinate



#### Log Cabin

A secret symbol that could be drawn on the nod indicating that is safe to talk







North Star



#### Bowties

shows that someone will bring you nice

clothes

#### You're looking Follow the m tattered. To disguise geese north to yourself as a freed and be free! slave, you'll need new clothes. This symbol

## Follow the migrating geese north to Canada

Flying Geese

Look to the skies to help you navigate the way north. Follow the North Star to Canada.

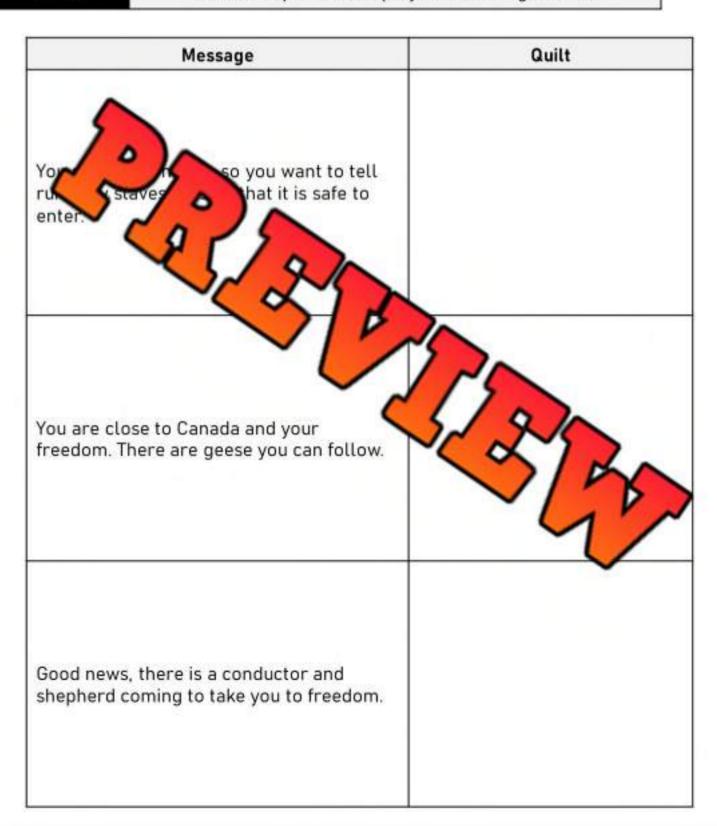
#### The time has come to box up your belongings. Your escape will be happening soon!

Tumbling Boxes

## Underground Railroad Quilts

Draw

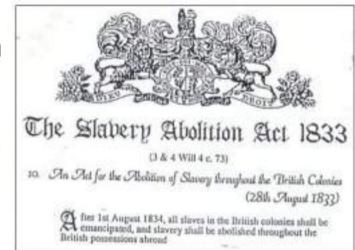
Draw the quilt that displays the message below



## Slevery Abolition Act

#### Slavery Abolition Act, 1833

The Slavery Abolition Act in 1833 was signed by the British government which freed over 800,000 enslaves Africans in the British colonies of the Caribbean, South Africa, and Canada. Moreover slaves were in the Caribbean and Canada. Moreover slaves were slaves were slaves were slaves were slaves were slaves and canada. Moreover slaves were slaves were slaves were slaves were slaves and canada. Moreover slaves were slaves were slaves were slaves were slaves were slaves were slaves and canada. Moreover slaves were slaves were slaves were slaves were slaves were slaves and canada. Moreover slaves were slaves and slaves were slaves and slaves were slaves and slaves were slaves were slaves were slaves and slaves were slaves were



The British of the country by ing the ped 20 million pounds to pay slave owners. This was 40% of the country by ing the ped 20 million pounds to pay slave owners. This was 40% of the country by ing the ped 20 million pounds to pay slave owners. This was 40% of the country by ing the ped 20 million pounds to pay slave owners. This was 40% of the country by ing the ped 20 million pounds to pay slave owners. This was 40% of the country by ing the ped 20 million pounds to pay slave owners. This was 40% of the country by ing the ped 20 million pounds to pay slave owners.

#### Ending Slavery in British America

In 1793, the Act to Limit Slaver, ppe tready moving British North
America towards abolition. Abolition meant getting rid of slavery.

By 1833, enslaved Africans in British North Frica (Frica The State of State

#### Reparations for the Enslaved

A **reparation** is when someone makes amends for something they did wromen disually in the form of paying money to the victim. Instead of making amends to the enslaved people in the British colonies, the British government decided to pay twenty million English pounds to the slave owners for the damages they suffered due to freeing their slaves.

The enslaved people in British North America received nothing. In fact, they were discriminated against in future British policies that prevented them from immigration to the Canadas. Others were beaten, killed and denied the ability to settle in certain regions. While British North America accepted many slaves, they did not make life easy for them while they lived there.

## Slevery Abolition Act

| True or False  | Is the statement true or false |
|----------------|--------------------------------|
| ilue oi l'alse | is the statement true or ratse |

| 1. The Slavery Abolition Act freed 800,000 slaves in British North America |      | False |
|--|------|-------|
| 2. Abolition means to get rid of a system, such as the system of slavery   | True | False |
| 3. The slaves were given reparations for their mistreatment                | True | False |
| 4. Less the oslaved Africans in British North America were freed           | True | False |
| 5. The sl  | True | False |

Questic er the questions below

1) What was the bolitical bolitical

2) What reparations were given to the former eq

peop

#### Reaction

What are your thoughts on Britain paying slave owners and not slaves?

## Wheet Ferming in BNA

#### Wheat Farming in Upper Canada

Emigration from Britain landed most British immigrants in Upper Canada because its culture was more English versus the French area of Lower Canada Many British immigrants bought ready-clean pland and began farming wheat the apopulation.



#### Corn La

The **Corn Laws** (a) tax (b) on anything coming to British colonies by non-British countries. It can be could get it without (a) extra the corn Laws came into effect in 1815 and its goal was to make British and the corn Laws came into effect in 1815 and the corn Laws came in the co

Upper Canada wheat farmers we success the Corn Laws. For five years after 1815, Upper Canadians were selling the leat it prices in Britain. This development encouraged more people to move mit of larger farms increased, which meant the area in Upper Canada was a pare an electroped.

#### The Wheat Economy

Wheat farming became its own economy as there were many moving

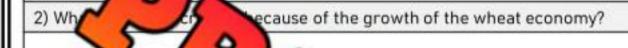
- A lot of wheat is needed to turn a profit as wheat is not a luxury item.
- Larger ships were needed to carry the massive amounts of wheat to Britain
- The shipping of grain required waterfront docks and warehouses that could stockpile grain
- 4) Canals were needed to connect farmers to the St. Lawrence River and Great Lakes
- 5) Cleared land was needed so many people worked to prepare land for farming As you can see, many people were needed to make wheat farming successful in Upper Canada. This created a lot of jobs for immigrants, including digging canals, building docks, clearing farmlands, building warehouses, and the farming itself.

## Wheet Ferming in BNA

#### Questions

Answer the questions below

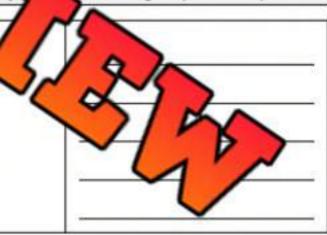
1) What were the Corn Laws? How did they affect farming in BNA?



Visualizing

Draw what you wer wicty

e reading. Explain the picture



#### True or False

Is the statement true or false

| 1) Wheat could be sold in small amounts for large profits             | True | False |
|---|------|-------|
| 2) The Corn Laws meant Canadian wheat was wanted in Britain           | True | False |
| 3) The growth of the wheat economy led to many different jobs         | True | False |
| 4) Canals were needed for farmers to send their wheat long distances  | True | False |
| 5) Clearing forests was not a big job, so preparing farmland was easy | True | False |

| <b>6</b> 1 |  |
|------------|--|
|            |  |
| Name:      |  |

## Com Laws - Upsetting BNA Residents

Not everyone liked the Corn Laws. Anyone who was not involved in farming didn't like that they could only buy grains from British colonies. The prices for grains was higher because there was less competition – less countries able to make it and sell it in BNA. It also meant that there was less grain available in BNA, which meant many went hungry.



| Triat is hoppering it the earteent Explain the impact of |
|--|
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## Churches and School in BNA

#### Church and School in Canada East

The Roman Catholic Church remained the most powerful church in the French-Canadian community. In the mid 1800s, many Canadians in Canada East were illiterate, meaning they couldn't read or write. The Catholic Church saw this problem and provided a Catholic school for every 100 families, or at least one for each parish (church community).

Since were English Protestant people in Canada East as well, Protestant schools were forbuild tain the schools as well as to pay the temporary beginning to be school were closed by the school were clo

#### Church and School in Cana

In Canada West, it was the Churc. Eng (Protestant) that was the most powerful. The universities and tiny schoolhouses where small of were paid very little and had very little education and families of the school's students. The teacher was often other subjects like math, language and science.

hi ce taught. Teachers by ce taught. Teachers c lived with the who religion and

#### Common School Act of 1846

The birth of the public-school system changed the school and religion connection. Doctor Egerton Ryerson believed that education and the church should be separate. He also believed that teachers needed to be more educated, which is why he established the first teacher's college. Ryerson was able to convince the government to create an education tax that would fund public schools and pay teachers.

The government passed the Common School Act of 1846, which brought a free public-school system for everyone. The new school system created a literate society that was able to make technological advances and economic growth.

## Churches and School in BNA

#### True or False

#### Is the statement true or false

| 1. Church and school were closely connected before the public school system     |      | False |
|---|------|-------|
| 2. Ryerson believed that church and school should be separate                   |      | False |
| 3. Ryerson also believed that teachers were paid enough and had enough training |      | False |
| 4. The Protect Church was the most powerful in Canada East (Quebec)             | True | False |
| 5. Taxes w to pay for schools and teachers                                      | True | False |

#### Ques.

#### er the questions below

1. How were school system?

2. Who was Doctor Egerton Ryerson? How did he cl

our

day school system?

#### Summarize

#### Summarize the churches and schools in BN

| A A COLOR              |  |  |
|------------------------|--|--|
| W. I. in ratio, in his |  |  |
| Name:                  |  |  |
|                        |  |  |

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## Conflict and Challenges - Unit Test

#### **Multiple Choice**

#### Circle the best answer. Only choose 1 answer!

| 1. The United States used, which is aggressive talk in favour of war and using military force | 2. Which Scottish man was responsible for the<br>Rebellion of 1837? |
|---|---|
| a) Impressment  | a) Louis-Joseph Papineau  |
| b) Propaganda   | b) William Lyon Mackenzie   |
| c) Jingoism   | c) Richard Pierpoint  |
| d) Attitud  | d) John Norton  |
| 3, WI (1812?  | 4. Which battle did Sir Isaac Brock die at?                         |
| a) The Treaty of G  | a) Fort Detroit   |
| b) The Abolition  | b) Fort Michilimackinac   |
| c) The Durham Report  | Fort Dearborn   |
| d) The Act of Union Treaty  | enston Heights  |
| 5. Many Irish immigrants are remembed for   | ound railroad was   |
| a) Building the railroad  | a) A t  |
| b) Developing farmlands across Canada   | et net itionists  |
| c) Building the canal systems   | c) A ground   |
| d) Building the parliament buildings  | d) All of the   |
| 7. In the War of 1812, most of the battles took place   | 8. Who had all the pow  |
| a) On American land   | a) Family Compact   |
| b) In BNA   | b) Missionaries   |
| c) In France  | c) Chateau Clique   |
| d) In Britain   | d) Wheat Farmers  |
| 9. Who wrote the Durham Report?   | 10. The Battle of Seven Oaks was fought where?                      |
| a) Louis-Joseph Papineau  | a) Hudson's Bay   |
| b) John George Lambton  | b) Sault Ste. Marie   |
| c) Richard Pierpoint  | c) Red River Valley   |
| d) John Norton  | d) Mica Bay   |

Define

#### What do the terms below mean?

| Term                                    | Definition – What does it mean?                          |
|---|--|
| Rebellion                               |  |
| Laura Seco                              | <b>)</b>   |
| Durham Report                           |  |
| Short Answer                            | Answer ion Sach question is worth 3 marks                |
| L) How did Sir Isaa                     | Brock and Tecumseh                                       |
| 2) What resources<br>other places (trad | were most important to the Canadas? How were to the ed)? |
| 3) What was the u                       | nderground railroad? How did it work?                    |
|   |  |
|   |  |

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| Name: | Date: | 3 |
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## Landform Processes

#### Landform Processes

A landform form is any characteristic that describes the earth's surface. Examples include valleys, mountains, hills, oceans and plains. Landforms are constantly changing over time. Scientists estimate through dating of rocks that the earth is 4.54 billion years old. Many of the processes that affect landform changes, happen so slowly that they cannot be noticed from one year to the next but over time the changes are significant. For instance, Niagara Falls is currently receding at a rate of 30 cm per year. Up until 1942 it was receding at a rate of 1.5 meters per year. Niagara Falls has receded 11.4 kilometers in the last 12,300 years forming the Niagara gorge.

landf earth has t

## Preview of 30 pages from this product that contains 77 pages total.

#### Tectorie i iaces

The earth can be compared to an egg. It is composed of 3 main parts. The core (inner and outer), which is like the egg yolk, the mantle, the egg white and a thin shell called the crust. The earth's crust has cracks and the pieces of crust surrounding the earth are called tectonic plates. Some of the plates are under continents and are from 30 to 150 kilometers thick.

Other plates are located under oceans and are 5 to 15 kilometers thick.

The mantle is made of thick molten rock that moves slowly in currents. This movement within the mantle causes the plates of the earth's crust to move very slowly. The plates move in different directions. Some move away from each other; some plates move towards each other causing one plate to slip under another plate. This is happening now off the west coast of United States where the small Juan de Fuca Plate is slipping under the larger North American Plate.

| F   |       | 4        |
|---|-------|----------|
| Landform Processes - Questi   | - 200 |          |
| True or False Circle whether the statement is true or fa                              | alse  |          |
| Mountains, hills and skyscrapers are examples of landforms.                           | True  | False    |
| 2. Landforms are characteristics of the earth surface                                 | True  | False    |
| 3. Landforms stay the same forever.   | True  | False    |
| Weathering erosion, volcanos and earthquakes are all processes that affect landforms. | True  | False    |
| 5. Tectoni of the earths mantle.  | True  | False    |
| 2) In what ways does flowing water affect landform                                    |       | <u> </u> |
|   |       |          |

| Name: | Date: | 5 |
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## Tectonic Plates

#### **Tectonic Plates**

The earth's crust is made up of 7 huge tectonic plates as large as continents and several smaller plates. These plates roughly fit together like a jigsaw puzzle that covers the entire surface of the earth. The edges of the plates where they meet other plates are called the plate boundaries. The Tectonic plates each move about 6 inches per year. We don't notice this movement but over

millions of whe continents have moved great distances.

#### 

Volcas of near plate boundaries because molten rocurron he th-called magma-can travel upward at the section between plates causing a volcanic erupt.



- Convergent Boundaries- where two plants oget When plates push together this can cause the earth to crumple and push up ming a stant. The Himalayas were formed in this way. When plates move towards there is no perplate will slip below the other plate. This is called subduction. Areas the area gent plate boundaries are often areas where mountains and volcanoe and earthquake activity. The Mariana Trench is the deepest part of the order of the massive and heavy Pacific Plate, being subducted or sinking under the small lighter, Philippine Plate.
- Divergent Boundaries- where two plates are pushed apart. Magma breaks through the earth's
  crust at the divergent boundaries and forms a mountain ridge. An example of this is the Mid
  Atlantic Ridge that is an underwater mountain range formed between two divergent tectonic
  plates. Earthquakes are common along divergent boundaries.
- Transform Boundaries- where two plates slide past each other, horizontally. The energy
  caused by this movement is released in the form of earthquakes. A well-known transform
  plate boundary is the San Andreas Fault, which causes many of California's earthquakes.

| Name: Date:   |            | 6     |
|---|------------|-------|
| Tectonic Plates - Question  | <b>S</b> — |       |
| True or False Circle whether the statement is true or false   |            |       |
| 1. A convergent boundary is when 2 tectonic plates are pushed apart   | True       | False |
| 2. Tectonic plates move about 6 inches per year   | True       | False |
| 3. Tectonic plate boundaries are where volcanoes and earthquakes happen   | True       | False |
| 4. The San Fault is located at a divergent boundary   | True       | False |
| 5. The Ma formed by subduction  | True       | False |
| Questions Use information from the  | er_        |       |
| Name 3 types of landforms created by the movement of the plant of |            |       |
| 2. How are volcanoes formed?  |            |       |
| 2 <del></del>   |            |       |

| Name  | Date: | 9 |
|-------|-------|---|
| Name: | Date; |   |



#### Volcanoes

Volcanos are landforms that are made when molten magma from the earth's mantle layer erupts through a crack in the earth's crust. When magma breaks through the earth's crust it is called lava. The cracks in the earth's crust occur when tectonic plates collide. The ocean plate is forced into the hot magma when it is pushed beneath the continental plate, and the pressure pushes the magma upward causing fiery eruptions of molten rock and lava. Volcanoes usually occur at the edge of tectonic plate.

shores, n, Indo e Philippines. There are more than 500 active volcanoes in the world. Three qua

#### 3 Major Types of Vo

#### Shield Volcanoes

Shield Volcanoes are volcanoes for om lava. The lava spreads from the mouth of the volcano and can travel for magently. Shield volcanoes are very wide.

#### Stratovolcanoes

Stratovolcanoes are sometimes called composite volcanoes. Some are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall. They usually have steep sides and are almost 2500 meters tall.

#### Cinder Cones

Are volcanoes formed by short eruptions out of a single vent at the top. Cinder Cone volcanoes do not usually get higher than 400 meters tall.

#### Massive Volcanoes

The largest volcano on earth is Mauna Loa in Hawaii. The tallest volcano is Mauna Kea which is also in Hawaii. Both are shield volcanoes that have formed on the ocean floor. If you measured Mauna Kea from the ocean floor to its peak it would be taller than Mount Everest.

| Name:                             | Date:  |        | 10    |
|-----------------------------------|--|--------|-------|
| True or False                     | Circle whether the statement is true or fals         | 0      |       |
|                                   |  | T      |       |
| -8                                | rm at tectonic plate edges                           | True   | False |
| 2) The Pacific Ring of            | f Fire has over 250 volcanoes                        | True   | False |
| 3) Volcanoes only oc              | cur on land  | True   | False |
| 4) Volcanoe on't c                | ause much damage because people don't live near them | True   | False |
| 5) Mauna                          | world's tallest volcano                              | True   | False |
|                                   |  |        |       |
| Questions  1) What are the 3 type |  | answer | >     |
| 2) What is the differen           | nce between magma and lava?                          |        |       |

| Name: | Date: | 11 |
|-------|-------|----|

## Hountains and the Water Cycle

#### Mountains and the Water Cycle

Fold mountains form along plate boundaries often along the borders of continents. In North America and South America, mountain ranges run the entire western length of both continents. Another fold mountain range runs across Europe and Asia. These fold mountain ranges are mode of sedimentary rock. The mountains are the source of almost 80% of the world's free through melting ice and snow and mountain rains. This water running down the opportunities for hydro power generation.

Water evaporates from oceans and form clouds which are blown inland. This happens along the west coast of North and with America. When the clouds reach the range the clouds rise and the water altitude to example water vapour in the

rain or snow.

The mountains hold a lot of this precipitation on their froz and an important source from mountain lakes and streams. Mountains are an important source from

The windward side of the mountain often has thick vegetation because numid conditions and plentiful precipitation. This vegetation also holds water. Mountains streams carry water back down the mountain to where it is used by people, consumed by plants and trees and where some makes its way back to the ocean where it started, to begin its journey through the water cycle again. Mountains play an important part in the water cycle.

The other side of the mountain called the leeward side is often dry with less vegetation because the clouds release all their rain on the windward side. Because of climate change mountain glaciers and ice caps are melting. This threatens the water supply for people who rely on this source for fresh drinking water.

| Name:                 | Date:   | n. 0      | 12    |
|-----------------------|---|-----------|-------|
| photocop              | ins and the Water Cycle - Ques                                  | GELORO    | 8     |
| True or False         | Circle whether the statement is true or false                   |           |       |
| 1. Mountains have a v | windward and a leeward side                                     | True      | False |
| 2. Mountains provide  | e and store approximately 80% of the world's fresh water.       | True      | False |
| 3. Because mountain   | is are mostly made of rock, they do not have much vegetation    | True      | False |
|                       | in clouds condenses as the clouds rise because the air is udes. | True      | False |
| 5. Global w           | areag mountain ice to melt.                                     | True      | False |
| 2. Why do mountain    | ranges form along the coastle                                   |           |       |
| Making Connec         | What does this reading remind you of in y                       | your life | e? )  |

| Name: | Date: | 15 |
|-------|-------|----|



#### What is a Valley?

A Valley is a landform that is a long low area between two mountains or hills. Valleys are one of the most common landforms. Often valleys have a river or stream running their length. Valleys can be V-shaped, U-shaped or have a flat bottom.

#### How are Val Formed?

Valleys are typical he les because they are carved out by glacier aciers schunks of hard ice that pick up rocks as they down to f a mountain, gradually grinding down is an acier.



At lower altitudes valle are early by the eroding action of water from streams and rivers and from wind. The pring over the earth erodes a trail that makes a river. As the water runs over the earth erodes arries expenses with it and gradually carves a deeper and deeper river bed. As the river carve per into a und the sides of the river erode into the river and are carried away with the carving of river banks that make a V-shaped river valley over the eroding action of water from that the earth erodes a trail that makes a river. As the water runs over the earth erodes a trail that the same and gradually carves a deeper and deeper river bed. As the river carve per into the sides of the river erode into the river and are carried away with the carving of river banks that make a V-shaped river valley over the eroding action of water from the earth erodes a trail that makes a river. As the earth erodes a trail that makes a river. As the earth erodes a trail that makes a very support to the earth erodes a trail that makes a very support to the earth erodes a trail that makes a very support to the earth erodes a trail that makes a very support to the earth erodes a trail that makes a very support to the earth erodes a trail that makes a very support to the earth erodes a trail that makes a very support to the earth erodes a trail that makes a very support to the erodes are river to the earth erodes a trail that makes a very support to the erodes at trail that makes a very support to the erodes at trail that makes a very support to the erodes at trail that makes a very support to the erodes at trail that makes a very support to the erodes at trail that makes a very support to the erodes at trail that makes a very support to the erodes at trail that makes a very support to the erodes at trail that makes a very support to the erodes at trail that the

The third way valleys are formed is through tectonic action. Te divergent boundaries and pull apart Fault Block mountains are formed. This place of rock crack at fault lines. Some blocks are forced up creating mountains and some as fall down creating the valley.

When valleys are first formed, they tend to be narrow but the older they are the wider the valley usually gets because rain, wind, frost and ice wear the sides of the valley down. The rate at which the valley evolves and widens depends on whether it is formed through hard rock, softer rock or earth.

#### Valleys and People

Valleys are a good place for people to live because they usually have a river. The river provides, fresh water, fish, transportation and good soil. Valleys also provide shelter from winds and smooth terrain on which to settle.

Name: 16 Date: Valleys - Questions Visualizing Draw what you were picturing in your head while you were reading om the text made you picture that in your head? tion from the text to support your answer Questions 1) What is a valley? When 2. How are valleys formed? Explain two ways? True or False Circle whether the statement is true or false False 1. Erosion has helped create valleys. True False 2. Some valleys are formed by avalanches. True 3. Valleys are good places for people to live. True False False 4. Valleys often get wider as they age. True V-shaped valleys are most often found at high altitudes. True False

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|-----------|-------------|-------|
| Name:     | Date:       | 21    |

## Controlling Soil Brosion

#### What is Soil Erosion

Soil erosion is the washing or blowing away of the top layer of soil. This happens in three ways through the movement of water, from strong winds and from gravity. Water erosion happens when heavy rain forces soil to travel with the water into streams and eventually larger bodies of water.

Wind erosion is the natural process that moves soil from one location to another by wind power. Strokes can cause a lot of soil particles to lift into the air and cause dust storms. Soil

erosion from gravity happens when farm fields are on a hillside of at least a 25-degree angle and there is little vegetation to hold the soil place. Heavy rainfall can cause the earth to become very hide down the hill.

#### Soil Erosion Hurts Farm

Soil erosion is a serious problem. It is soil is needed for farmers to produce crops. Farmers work very hard to produce so lots rients. Wind and water erosion cause this nutrient rich topsoil to travel to on areas an orte up in the bottom of a body of water. Topsoil is often the most fertile and when a way a sis less productive.

#### **Controlling Soil Erosion**

Soil erosion can be controlled using the following methods:

- Windbreaks A windbreak is a line of plants that are planted to act like the wind. Farmers will use a row of thick bushes next to a field of plants to standard wind from blowing the soil away
- Terracing Terrace farming means the farmer builds "steps" or terraces that are built into the side of a mountain or hill. They do this so that when it rains, the nutrients get washed down to the next level of crops.
- Reforestation Replanting in an area that lost its plants is called reforestation. If a forest burned down, reforestation would mean to replant the trees.

Reforestation stops soil erosion because the roots of plants help make the soil stronger as it pulls the soil together. This makes it harder for the wind and water to move the soil.

| Name:        | Date:  |           | 22    |
|--------------|--|-----------|-------|
|              | Controlling Soil Brosion - Question              | 8         |       |
| True or I    | Circle whether the statement is true or false    | ,.        |       |
| 1) Soil eros | ion means that soil washes or is blown away.     | True      | False |
| 2) Soil eros | sion hurts farmers the most.                     | True      | False |
| 3) Windbre   | aks are steps in the side of a mountain.         | True      | False |
| 4) Reforest  | means you plant trees that were lost.            | True      | False |
| 5) Wind ca   | psion by blowing soil to new locations.          | True      | False |
| Que.         | information from the text to support your answer | er        |       |
| -            | we stop soil erosion?                            |           |       |
| Making       | What does this reading remind you of in          | your life | e? J  |
| (i)          |  |           |       |

| Managa | Date  | 27 |
|--------|-------|----|
| Name:  | Date: | 61 |
|        |       |    |



#### What is a Glacier?

A glacier is a huge chunk of ice that moves very slowly over land. The largest glacier in the world is Lambert Glacier, which is in Antarctica. It is 100km wide, 400km long, and 2.5km deep! That is 40,000 kilometres squared, which means it is larger than Vancouver Island, which is 31,285 kilometres squared.

Glacie poportant because they give us 75 percent of b water. Today, glaciers cover vorld's total land area.



How Glaciers Form

Glaciers are huge pieces of the live of the spring of the old snow and ice melts during the spring of the old snow and ice each year. Massiv chur of the old snow and ice each year. Massiv chur of the Arman orm, over thousands of years, which are called glaciers. Most of the glacier on the Arman orm, over thousand, but glaciers are found on nearly every continent, even Africa.

#### Glacial Erosion

Glaciers are so large and so heavy that as they move, they wear dealers and changing the shape of mountains. The glaciers act like sands they break down rock. Glaciers erode the underlying rock by abrasion.

#### Glaciers and Climate Change

- One of the biggest causes of the sea level rising is melting glaciers.
- There are a total of 198,000 glaciers worldwide.
- Scientists are tracking the size of 40 glaciers worldwide and have found that since 1980 these
  glaciers have lost the equivalent of 24 meters in height because of melting.
- Most glaciers are shrinking
- In some parts of the world glaciers provide water for human consumption so the loss of glaciers is a serious problem.

| Name:                  | Date:  |                  | 28          |
|------------------------|--|------------------|-------------|
|                        | Glosiers - Questions                         |                  |             |
| True or False          | Circle whether the statement is true         | or false         |             |
| 1. A glacier is a huge | chunk of ice that doesn't move.              | True             | False       |
| 2. A glacier slides ac | cross land and erodes it.                    | True             | False       |
| 3. Glaciers act like s | andpaper that wear down rock.                | True             | False       |
| 4. We don't            | aciers because they only keep our land cold. | True             | False       |
| 5. Glaciers            | 6 percent of the world's fresh water.        | True             | False       |
| Sum                    | mmarize the reading by writing the impor     | tant information | on          |
| Questions              | Use information from the oppor               | answer           |             |
| ) What is a glacier?   |  | 1                | <b>&gt;</b> |
| 2) How does a placier  |  |                  |             |
| c) How does a glacier  | cause erosion?                               |                  |             |

| Name: Date | 31 |
|------------|----|

## Human-Caused Changes to Habitets

#### **Human Impact on Habitats**

As the human population increases, we take over and destroy habitats that plants and animals need to survive. In addition to destroying habitats, we are also moving invasive species into habitats which compete with native species for food and space to grow. Both of these human actions can cause extinction and endangered species. Research has shown that humans have caused 322 different animal species become extinct over the past 500 years. This does not mean we have killed 322 animals. Extra when an entire animal or plant species dies, meaning there are no individual animals are now all extinct.

More recently the domain and the same was last seen in 1992.

#### Endangered Species

An endangered species is a species and or at is at risk of extinction. In Canada, the number of the species endangered. Sea otters whales and wolverines are all considered endangered animals in Canada. The main reason these animals are endangered because of us. Humans destroy habitat and over hunt certain

# Averine

#### s eding t tion.

#### **Human Actions Threatening Wetlands**

Wetlands are very important ecosystems because they provide a home for the ge of living plants and animals. Humans are changing wetlands in the following ways. Fit may pollutants are being added to wetlands. These pollutants are coming from households, businesses, and factories. Pollution can also enter wetlands in the groundwater. When farmers use pesticides, fertilizers and other chemicals, they enter the groundwater and can end up in wetlands. The polluted water is not safe for plants and animals to consume. Secondly, humans change the flow of water in wetlands by rerouting the water to help supply farmers with water for their crops, or to supply people with drinking or to prevent flooding. The changing flow in water affects fish populations greatly. Their ability to lay eggs depends on water flow and they need a constant water flow to migrate during colder seasons.

| Name:  | Date:   |         | 32    |
|--|---|---------|-------|
| Human-C  | cused Changes to Habitats - Qu  | estic   | ees-  |
| True or False  | Circle whether the statement is true or false   |         |       |
| Humans caused an not at risk because w                               | imals to become extinct in the distant past but now species are<br>we know better.  | True    | False |
| 2. Water pollution do  | oes not affect plants,  | True    | False |
| 3. Over hunting is a p   | problem that threatens certain species.   | True    | False |
| 4. People need   | a living so we should not be concerned about endangering species.   | True    | False |
| 5. Farm  | vildlife species because of their farming practices.  | True    | False |
| 그 집에 가지 않는데 그 사람들은 아이들이 가지 않는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하 | Use information from to some serior | need to | stop  |
| 2. How are wetlands  | being affected by human actions? Explain?   |         |       |

| Name: | Date: | 35 |
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#### Human Activities that Affect Water Landforms

#### **Human Activities that Affect Water Landforms**

Humans need water to survive. People use water for drinking, washing, waste disposal, watering crops, generating power, fishing, transportation and recreation. People like to live near water, so they have a convenient source of water for their needs. Because landforms are constantly changing sometimes people live too close to water and they have to build something to make the water flow where they want it to go. For this reason, people build dykes, dams and levees.

A levee is an expension of a wall that is conflooding to the average also are use constructions and the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of a body of the average also are use of the average also are used to average also are use of the average also are used to average also average also average also are used to average also average also average also average also a

ment or a wall that is constructed to keep land that is normally dry from beavy rains, melting snow or storm surges that could cause water ees also are used to control the flow of rivers. They are usually es of a body of water such as a river or lake. A levee built

along the edge of a river keeps the river from overflowing its bank and flooding areas where pole live.

evees prevent erosion from widening the evee causes the river to stay within it is the water deeper and faster ng. Le event rivers from carrying ediment eltar of form. This reduces wetla

#### What is a Dyke?

A dyke is a wall or ridge of raised earth that is constructed which had from being flooded. The difference between a dyke and a levee is that a lever of the normally dry from flooding. A dyke keeps land dry that would be weth Dykes and levees have water on one side. When dykes are built it reduces well as the construction of the construction of

#### What is a Dam?

A dam is a structure or barrier across a stream or river that is built to create a reservoir of water used to create access to a regular supply of water, for flood control or to generate hydro electric power. Dams can be small. A farmer may make a dam across a small stream just by dumping a few loads of earth into the stream, to create a pool which can be used by farm animals for drinking water. Dams can also be enormous concrete structures such as the Hoover Dam which is built across the Colorado River in United States.

The Hoover Dam was built to control flooding, provide irrigation water and provide hydroelectric power. The Hoover Dam is a 221 meters tall concrete structure that created Lake Meade as its water reservoir. A dam has water on both sides. When huge dams are built large areas of land are flooded causing people and animals to have to relocate.

| Name: Date:  |           | 36       |
|--|-----------|----------|
| Humon Activities that Affect Water Landforms -   | Quest:    | ions     |
| True or False Circle whether the statement is true or fal  | se        |          |
| 1. A dam is made of concrete and a levee is made of earth.   | True      | False    |
| 2. Dams, dykes and levees all control flooding.  | True      | False    |
| 3. Dykes can keep land that is below sea level dry.  | True      | False    |
| 4. Levees are built across waterways.  | True      | False    |
| 5. Dams are create hydroelectric power.  | True      | False    |
| Sumummarize the reading by writing the important i   | nformatic | on       |
| Questions  Use information from the approximation of the negative impacts of humans changing from the second of the negative impacts of the negati | answer    |          |
| levees, dykes and dams?  |           | <b>)</b> |
| 2) How has the ability to build levees, dams and dykes benefitted humans?  |           |          |
|  |           |          |

| Name: | Date: | 37 |
|-------|-------|----|

### Hurricane Katrina

#### Hurricane Katrina

Hurricane Katrina hit the Gulf coast of the United States in 2005. At its strongest it became a category 5 hurricane with 175 mph winds. It killed 1800 people and caused 108 billion dollars in damage when its flood water caused the levees to fail.

New Orleans is located in Louisiana on the Mississippi River Delta.

As the city expanded and needed more land, marshes were drained to make more room to build. This reduced the wetlands and caused the city sink due to subsidence.

the liquid is taken in Normans both the removal of water and oil from the ground caused subsidence. No mans was allowed by lying ground but because of the actions of humans it sank even more, causing in a city to low sea level.

Wetlands and barrier island at under the detailed and det

Humans have made New Orleans more vulnerable to flood man formation of the Mississippi Delta. Deltas are formed from river water care deposits at the mouth of the river, making the water shallow and fertile where we liants grow, and barrier islands form.

People built levees and dams to prevent flooding from rising river water. These changed the flow of the Mississippi and Missouri Rivers that would have brought sediment to the Mississippi Delta which would have caused wetlands to continue to form and replace

New Orleans' levee system

those that were destroyed by flooding. Because the levees reduce the amount of sediment deposited at the Mississippi Delta, wetlands are disappearing at a rate of 60 square kilometers per year. This is causing more severe flooding when there are storms such as Hurricane Katrina.

| Name:                                      | Date:  |           | 38      |
|--|--|-----------|---------|
|  | Hurricanc Estrins - Questions  |           |         |
| True or False                              | Circle whether the statement is true or false  |           |         |
| 1. Wetlands and n                          | narshes cause flooding during storms.  | True      | False   |
| 2. Hurricane Katr                          | rina was a category 5 hurricane.   | True      | False   |
|  | ms prevent wetlands from forming because they hold the sediment ally deposit in the river delta. | True      | False   |
| 4. Subsidence earth.                       | when the earth sinks because oil or water is removed from the                                    | True      | False   |
| 5. Levees                                  | e from happening during hurricanes.  | True      | False   |
| Quest. 3  1) What changes to be worse than |  |           | Katrine |
| 2) What are the b                          | benefits of wetlands?  |           |         |
| Making Conr                                | nections What does this reading remind you of in   | your life | e?      |
|  |  |           |         |

| Name: | Date: | 39 |
|-------|-------|----|

## Occors Currents

#### Oceans Currents

The earth has five oceans. From largest to smallest, they are the Pacific, the Atlantic, the Indian, the Southern or Antarctic and the Arctic Oceans. Oceans cover 71% of the Earth's surface.

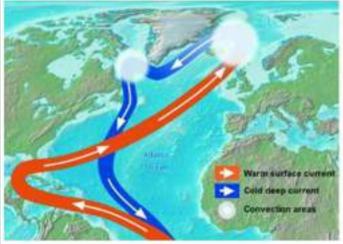
Permanent Streams of water which flow in a definite direction from one part of the ocean to another part are called ocean currents. Each ocean has its own currents, Ocean currents can be thousands of contents long and up to 200 kilometers wide. Ocean current are either warm or cold depending of they originate, from around the equator or from the North or South Pole.

Ocean wind, the earth's rotation and tides.

The also be changing temperature of the water and by the salt content in the water. Warm water are that the salt content in the water. Warm water is pushed the brings with it a warming affect. Rain clouds also form over warm water so will appear to the warm water around the earth it has a major effect on weather. Most of the lid's som ocean water.

The amount of salt in the water also a find create the salt water evaporates or freezes it leaves the salt behind. This increases the salt ent of face water and causes it to sink pushing less salty water to the surface. It create the salt water to the surface of the salt water to the surface.

The Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Atlantic Ocean that the Gulf Stream is a current in the Gu



Gulf Stream is driven by common that mix up the ocean waters. Cold was brawn down from the Arctic and sinks to the ocean bottom, where it is pulled down toward the equator as lighter, warmer water rises to the ocean's surface. The warmer water is pulled northward to replace the cold water that's been pulled southward. This process distributes heat and rainfall around the world.

In the Northern Hemisphere currents travel in a clockwise rotation and in the Southern Hemisphere currents travel in a counterclockwise rotation.

| Name:                                    | Date:   |      | 40          |
|--|---|------|-------------|
|  | Occoms Currents - Questions   |      |             |
| True or False                            | Circle whether the statement is true or false   |      |             |
| 1. Ocean currents                        | change where they flow from year to year.   | True | False       |
| 2. Ocean currents                        | affect weather.   | True | False       |
| 3. Oceans cover 71                       | 1% of the earth's surface.  | True | False       |
| 4. The Gulf                              | is a current in the Pacific Ocean that is 200 kilometres wide.  | True | False       |
| 5. The any                               | ean water affects ocean currents.   | True | False       |
|  |   |      |             |
|  |   |      |             |
| Questions                                | Use information from the to   |      |             |
| /h. / p. h. / h. / h. / h. / h. / h. / h | Use information from the total state of the |      | >           |
| 1) What are 3 thing                      |   |      | <b>&gt;</b> |

| Name: | Date: | 41 |
|-------|-------|----|

## El Nino and La Nina

#### El Nino and La Nina

Warmer or colder than average ocean temperatures in one part of the world can influence weather around the world. The El Nino Southern Oscillation (ENSO) Cycle is a pattern of weather caused by the Trade Winds that blow in a band near the equator from the west Coast of South America to Asia. The ENSO Cycle is the oscillating or back and forth pattern of warm water and cool water trading places as window across the Pacific Ocean. El Nino means, the boy, in Spanish and it is the warm phase. La Nino the girl, and it is the cold phase.

to west powerms towards Asia and Australia accumulating an ol of urface water in the western Pacific Ocean wing towards Asia and Australia accumulating an ol of urface water in the South America. This creates towards Asia and Australia accumulating an ol of urface water in the

countries affected by these Pacific Its. I would not over warm water.

In some years the Trade Winds are not mig cau warm surface water to drift eastward toward South America. This is called El Nino. El affect the Inter-climate in North America. The warm ocean water attracts the Jetstream of the State of the Inter-climate in North than they normally do. This causes heavy rain and flooding in the south of State of the America weather in Pacific North western United States and Canada. El Nino of the South America side the cool water of the State of the State of the South America side the cool water of the State of th

When the Trade Winds get stronger again, sometimes, they blow harder than usual, causing cool surface water to accumulate along the coast of South America. This cool surface water causes unusually cold conditions in the Pacific Ocean pushing the Jet Stream winds north. This is called La Nina. La Nina causes drought in the southern United States and heavy rain and flooding in the Pacific North West. In Australia La Nina causes more rain in their summer.

An El Nino or La Nina happens every 2 to 7 years. El Nino happens a bit more often than La Nina. El Nino and La Nina cause water shortages, and because of flooding and drought they reduce our ability to grow food.

| Name: | Date: | 43 |
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## Land Reclamation

#### Land Reclamation

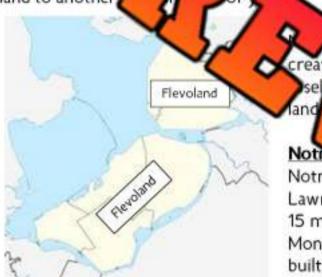
Land reclamation refers to either:

- · creating new land from marshes, riverbeds or oceans
- returning land that has been disturbed by mining or use as a landfill and returning it to an improved condition.



#### Polders in the Netherlands

The largest cole of the first type of land reclamation is the polders in the Netherlands. A polder is a polder is



In the 1920s, a land reclamation project began in ds. Another province called Flevoland was created an area that used to be a lake called the sellamed 1620 square kilometers of land.

#### Notre Dame Is n M

Notre Dame and a property of the St Lawrence Rive age was built using 15 million tons of the Was property of the Montreal Metro under ail built on the island. Since the Montreal Metro under ail built on the island has been apark with

gardens and a lake for swimming in summer and skating in winter. The islandaries.

#### Reclaiming land used for Natural Gas Wells.

Natural Gas wells are usually used for 20 to 30 years before they are no longer productive. After that companies have the responsibility to restore the land to its condition before the well was opened. The land needs to be reshaped with drainage systems added. The layers of soil that were removed for the well need to be replaced and topped with topsoil and then trees and grass need to be replanted.

The site needs to be monitored to check soil and water quality and to make sure the replanted vegetation is growing. The process is the same when landfills are closed. They need to be returned to their former or an improved condition and they need to be monitored to make sure they are not a source of ground water or air pollution from methane gas.

|                          | Date:  |        | 44          |
|--------------------------|--|--------|-------------|
|                          | Land Reclamation - Questions   |        |             |
| True or F                | Circle whether the statement is true or false  | e      |             |
| 1. Land recla            | amation is taking land back from previous owners.  | True   | False       |
| 2. Land recl<br>of land. | amation can be adding to land area by draining the water off of an area  | True   | False       |
| 3. A land red            | clamation project can add huge areas of land.  | True   | False       |
| 4. When a p              | ie of land is used as a landfill or a mine it cannot be used for anything  | True   | False       |
| 5. Using la              | for landfill sites has a negative impact on the  | True   | False       |
|                          | 3  |        |             |
| Questio                  | ns Use information from the uppor  | answer |             |
| l) What are t            | Use information from the he steps to a land reclamation project after an oil who not the benefits of land reclamation? | answer | <b>&gt;</b> |



| lan | ne   | _    |     |     |          |    |             | _          | 8 9          | Da  | te: |      |     |      |      |       |      | === |               | 4                                       |
|-----|------|------|-----|-----|----------|----|-------------|------------|--------------|-----|-----|------|-----|------|------|-------|------|-----|---------------|---|
| œ   | tå   | vi   | ti  | 38  |          | Pl | 17/8        | Š          | ed           | l   |     | i de | M   | 18   | ů    | 1 @   | 3 C  | b   | <u> </u>      | ing Worl                                |
| Wo  | ord  | Se   | arc | h   |          |    | Find        | d the      | e wo         | ord | ban | k w  | ord | s in | the  | pu    | zle  | !   |               | Word Bank                               |
| F   | Н    | D    | У   | L   | E        | ٧  | У           | E          | Н            | Т   | G   | Α    | В   | Z    | K    | W     | L    | F   | L             | Human                                   |
| R   | U    | Α    | 0   | L   | I        | K  | W           | D          | W            | В   | W   | N    | 5   | R    | D    | D     | 0    | D   | W             | Activities                              |
| D   | P    | R    | 0   | C   | E        | 5  | 5           | E          | 5            | E   | G   | N    | Α   | H    | C    | E     | В    | ٧   | I             | Natural                                 |
| F   | Н    | L    | Α   | C   | I        | 5  | У           | Н          | P            | Т   | F   | X    | R   | W    | P    | F     | 5    | G   | J             | Processes                               |
| Q   | F    | C    |     | 2   | G        | K  | T           | W          | ×            | В   | J   | C    | M   | В    | Т    | M     | I    | У   | I             | 1+ n. (10/04) / (10/04)                 |
| Н   | ٧    | R    | 7   | `   | 1        | A  | R           | U          | т            | Α   | N   | N    | Ν   | У    | R    | J     | E    | C   | С             | Landforms                               |
| У   | X,   | /    |     | •   | K        |    | 5           | G          | N            | C   | N   | I    | D   | 0    | G    | 0     | E    | F   | 0             | Delta                                   |
| E   | 4    |      | 5   | -   | 1        |    | , `         | C          | Н            | D   | J   | В    | F   | R    | I    | K     | M    | G   | Т             | Levy                                    |
| s   | E    | 0    | N   | ~   |          | ,  |             | <b>/</b> v |              | E   | N   | D    | У   | Т    | Μ    | W     | z    | E   | W             | Physical                                |
| A   | Т    | M    | L   | 70  | J        |    | Ī           | 9          | ٠,           |     |     | Q    | Ν   | N    | У    | L     | C    | 5   | A             | Environmen                              |
| W   | G    | K    | G   | I   | E        |    | <i>&gt;</i> |            | ~            | ×   | К   |      | 0   | Α    | Α    | Т     | Т    | K   | D             | Natural                                 |
| D   | Q    | U    | F   | L   | C        | N  | 8           | (          | $\checkmark$ | Y   | 1   | -    | ľ   | 8    | 0    | Ν     | X    | Т   | D             | Events                                  |
| В   | N    | 5    | T   | C   | Н        | I  | 0           | 6          | V            | N   |     | -    |     | N/   |      | H     | A    | T   | I             | Land                                    |
| P   | В    | A    | Н   | Μ   | C        | Н  | H           | U          | 0            | A   |     | /    | 1   | y    | ١,   | J     | -    | E   | 5             | Reclamation                             |
| Т   | ٧    | F    | L   | Q   | P        | G  | P           | R          | W            | У   | A   | C    | 5   |      | F    | 0     | 2    |     | 0             | 100000000000000000000000000000000000000 |
| C   | L    | 0    | F   | J   | U        | L  | I           | Α          | V            | N   | Q   | E    |     |      | 5 y_ |       | <    | 2   | 1             | Volcanoes                               |
| J   | W    | R    | U   | P   | В        | ٧  | L           | У          | Т            | I   | W   | ٧    | В   | 7    |      |       | X    | W   | 7             | Climate                                 |
| Ε   | ×    | C    | U   | U   | Ν        | C  | Ε           | W          | L            | Н   | Q   | Н    | C   | G    | Н    | \     |      | 7   |               |   |
| J   | V    | E    | X   | E   | E        | В  | I           | В          | 5            | М   | R   | 0    | F   | D    | N    | A     | Y    | T   |               | V                                       |
| F   | Α    | 5    | F   | R   | F        | z  | Ε           | N          | 0            | 0   | U   | G    | Z   | 0    | F    | Ν     | F    | Н   | $\overline{}$ | ces                                     |
| or  | ·d 9 | icr  | a m | hle | _        |    | Ins         | crai       | mbl          | eth | e w | ord  | har | k w  | ord  | ls fr | om   | abo | Ve            | <b>V</b>                                |
|     |      |      |     |     | <i>A</i> |    | 9114        | u. u.      |              |     |     | -,-  |     |      |      |       |      |     |               | V                                       |
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| Name:                                     | £8                       | Date:  |
|---|--------------------------|--|
| Test - I                                  | Physical Patter          | rns in a Changing World                              |
| Multiple Choice                           | /6                       |  |
| 1. When two tector                        | nic plates push together | 2. These mountains have magma inside                 |
| a) Divergent Bound                        | daries                   | a) Fold Mountains                                    |
| b) Convergent Bou                         |                          | b) Fault Block Mountains                             |
| c) Transform Bour                         | ndaries                  | c) Volcanic Mountains                                |
| d) All of the above                       |                          | d) All of the above                                  |
| 3. Which is p                             | type of volcano?         | 4. What is the number one cause of erosion?          |
| a) Shie                                   | 25                       | a) Wind  |
| b) Stratov hoes                           | 0                        | b) Storms  |
| c) Ash Volcano                            | 0 / 5                    | c) Water   |
| d) Cinder Cones V                         | olcal \                  | d) Humans  |
| 5. Which of the fo<br>control soil erosio |                          | thich country has undergone many land tion projects? |
| a) Windbreaks                             | ~ /                      | The  |
| b) Deltas                                 | _                        | b) C3  |
| c) Terracing                              |                          | 5e / Q   |
| d) Reforestation                          |                          | d) Australia   |
| Definitions (1 mark                       | s each) /3               |  |
| Term                                      | Defi                     | inition (what does it mea                            |
| Delta                                     |                          |  |
| Landforms                                 |                          |  |
| Land<br>Reclamation                       |                          |  |

| Short Answer Questions (2 marks each)   | /6                        |
|---|---------------------------|
| <ol> <li>What is erosion? Provide at least one examp</li> </ol>                         | ole.                      |
|   |                           |
| 2. What is the water cycle? How do mountains  | s affect the water cycle? |
|   |                           |
| 3. What Sland? P smples of w  | vetlands.                 |
| 25/2  |                           |
| Long Answer Questions 75  |                           |
| How have human activities affected our phys<br>which humans have changed our environmen |                           |
|   | 200                       |
|   |                           |
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|   |                           |
|   |                           |
|   |                           |

| Name: | Date: | 3 |
|-------|-------|---|

## Neturel Resources

#### Natural Resources

People need lots of things to live safely and comfortably. They need housing, food, water as basic needs and then there are lots of things, they need to enjoy their lives, such as, their cars, phones, computers and television. All these things require materials to manufacture them, and some require power or fuel to make them work.

Natural resources are things in nature including, air, water, plants, sunlight, soil, rocks, animals and oil. Some natural resources are underground. Natural Resources are useful materials found on our planet that can be accessed when needed. Materials on earth become Natural Resources when humans value them. For instance, minerals have been on earth since its formation, but humans didn't know how to use them at first. Gold, silver, copper and aluminum became Natural Resources when humans discovered how to use them and wanted to find and extract them.

live of most water when

Type Natu

# Preview of 25 pages from this product that contains 62 pages total.

resources, Non-renewable Resources and Flow Resources.

Renewable Resources are resources that are replaced from time to time so we can use them again and again. Examples include water that is recycled through the water cycle, trees and plants that can be replanted and animals that reproduce.

Non-renewable Resources are things that have a finite amount or that cannot be reproduced in our lifetime. Examples include oil and other fossil fuels which take millions of years to form, so when we use them, they will not be replaced in our lifetime for our use. Minerals are another example.

Flow Resources are neither renewable nor non-renewable. Flow resources must be used when and where they occur in nature. Examples include waterfalls that can be used to create hydroelectric power, but, once the water has gone over the falls the ability to use it for power is gone. Sunlight for solar power is another example. When the sun is shining it can power a solar panel but if we don't have a solar panel where the sun is shining the solar energy is not captured and used and it cannot be recaptured.

| True or False  Circle whether the statement is true or false  1. People can choose not to use natural resources.  True  True  True  True | False<br>False |
|--|----------------|
| People can choose not to use natural resources.  True  | 5000000        |
|  | 5000000        |
| 2. Natural resources are all around us. True   | Falco          |
|  | raise          |
| Things in nature become natural resources when humans value them.  True  | False          |
| 4. Flow resources are non-renewable resources.   | False          |
| 5. Natural be classified as non-renewable, flow and renewable. True  | False          |
| Ques nformation from the text to support your answer   |                |
| 1) What are som @ all re that people like to have nearby?  |                |
|  | -              |
|  |                |
|  |                |
|  |                |
| 2) Why is it important to know whether resources news of pewalle?  |                |
|  |                |
|  | <b>—</b>       |
|  |                |
|  | - 5            |
| Making Connections What does this reading remind you of in your li   | fe?            |
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| Name:                      | Date: | 9     |

# Flow Resources

#### Flow Resources

A flow resource is a resource that is neither renewable nor non-renewable. It must be used where and when it occurs and there is an unlimited supply. Flow resources are natural resources or processes that humans have no influence over. Examples include, sunshine, tides, wind, running water and geothermal. Flow resources will not be exhausted over time. This is not because they renew thems. Flow resources either have a source, like the sun, that is so huge it will not exhaust, or have a result of a process such as the wind, rain or tides that repeat natural.

Flow resourcial rumans because using them does not create as many negative environments of the state of the s

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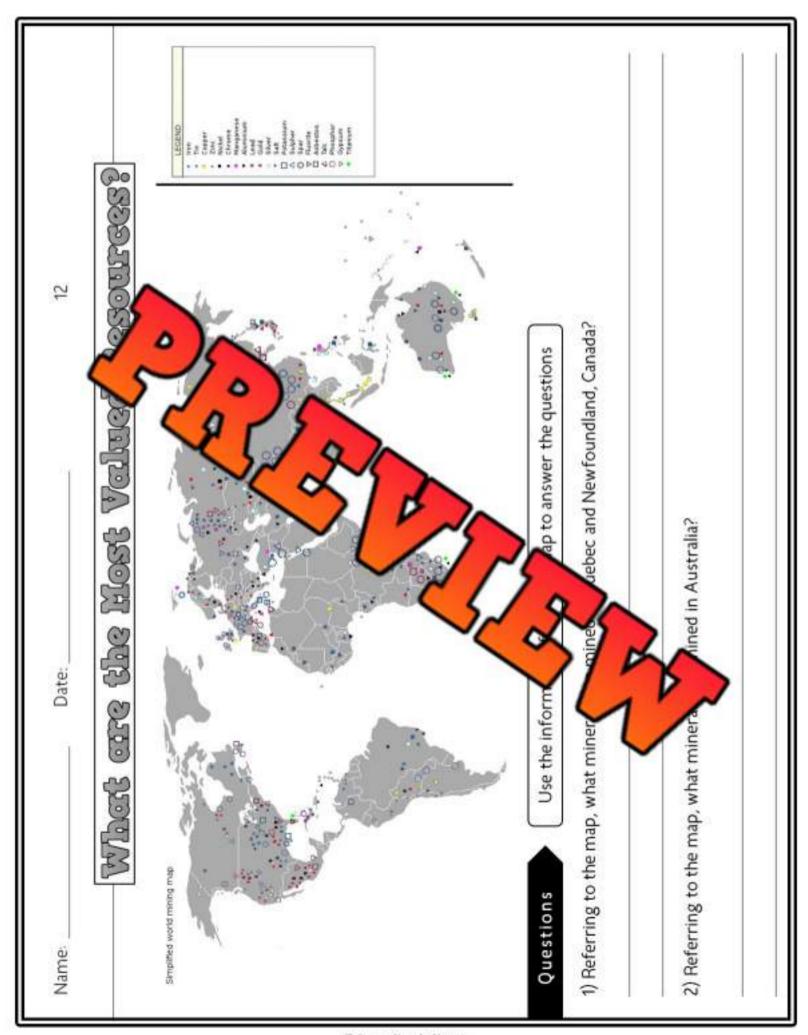
The higher the water drops,

er being pulled

to the turbine, creating more ener

There are lots of benefits to using hydroelectric power. It is clean, efficient, mable, cost effective and sustainable. The disadvantages of hydroelectric power are the amount of land the projects use and the disruption of plant and animal habitat. At Niagara Falls, Ontario Hydro has a 750-acre water reservoir that they use to divert water, so that they can always have a steady stream of water going through their turbines. In other places when a hydroelectric project is built, they construct an enormous dam and flood huge areas along the river that was dammed, destroying lots of animal habitat and plants and often forcing people to move. When the Three Gorges Dam was built in China, 13 cities and over 1000 villages were flooded, which displaced 1.2 million people.

| Name: Date:   |        | 10    |
|---|--------|-------|
| True or False Circle whether the statement is true or false   |        |       |
| 1. Flow resources are renewable resources.  | True   | False |
| Sunshine, wind, rain and running water are examples of flow resources.                                      | True   | False |
| There are no negative environmental impacts from using flow resources.                                      | True   | False |
| 4. Humans can control flow resources.   | True   | False |
| 5. We use 6 % fossil fuels for our energy needs because flow resources cannot programmed to meet our needs. | True   | False |
| Questions  Use information from the apportant source of energy?   | inswer |       |
| 2) What are some of the negative impacts of hydroelectric power?  |        |       |
|   |        |       |



| Name: | Date: | 14 |
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## Climate Change and Renewable Energy

#### Climate Change and Renewable Energy

One of the biggest problems the world faces in the next century is climate change. Climate change is the result of the average temperature on earth rising. The earth is getting warmer because gases (mostly carbon dioxide) are released into the air and gather in the atmosphere around the earth, acting like a blanket that traps heat. The ways humans make and use energy accounts for 70% of greenhouse.

Cling the big problem because it leads to more extreme weather like storms and hurrion and add to something, which causes ocean levels to rise, threatening low-lying countries like the N h for ding. When glaciers melt, it reduces the amounts of fresh water available to for the using drought and inability to grow food.

The United Nations has a way of the second o

Governments help meet their targets by offer the office of the state o

The use of renewable resources plays a big role in reducing greenhood gas many forms of renewable energy including, solar, wind,

hydroelectric power, geothermal, ocean power and biomass.

#### Hydro Electric

Hydroelectric energy is the largest source of renewable energy worldwide. In 2019 Canada was the second highest

hydroelectric power producer in the world behind China. Hydroelectricity is clean energy that does not produce greenhouse gases. Hydroelectricity is a stable and consistent source of power. Unlike solar that needs daylight to produce power, hydroelectricity can be generated 24 hours a day. Hydroelectric power is cost effective. Hydro plants have low operating costs.

| Name:                          | Date:   |      | 15       |
|--------------------------------|---|------|----------|
| Climate C                      | hange and Renewable Energy - Qu   | esti | 200      |
| True or False                  | Circle whether the statement is true or false   |      | ,        |
|                                | uels for most of our energy needs because there are not<br>nergy sources to meet our needs. | True | False    |
| 2. Using renewable r           | esources helps reduce climate change.   | True | False    |
| 3. The way humans ma           | ake and use energy is the main source of greenhouse gas emissions.                          | True | False    |
| 4. Hydroeleco is               | the only green renewable energy source.   | True | False    |
| 5. The Unit                    | is working with its partner countries on reducing   | True | False    |
| Questions  1) How does burning | Use information from the text   |      | <b>)</b> |
|                                | 1   |      |          |
| 2) What are 4 differen         | ent types of renewable energy?  |      |          |
| S-                             |   |      |          |

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#### What is Ocean Power?

Ocean power is a flow resource. Ocean power is when we turn the energy that is in the waves and tides of the ocean into energy. Tides are produced twice a day from a combination of the moon's gravitational pull on the earth and the earth spinning on its axis. Tidal energy is reliable energy because the tides occur reliably every day.

Tidal s only available where the ocean shorelines allow for the water to be captured idal energy is made by creating a reservoir for the tidal water. The high t eservoir over turbines that turn and generate power. The high the reservoir is then released through tubes that ter over a turbine that turns, creating electricity. argest in South Korea only make power The tidal power plant in France oin and out using reversible makes en turbines. This plant ower for 130,000 households each ye enerating Station in Nova Scotia generates e 00 bomes.

We can get power from waves either from devices that float on the surface of the water or from devices on the ocean floor. The oscillating motion caused by the waves moves these devices up and down generating power. Portugal had the first and largest wave farm system that could produce power for 1500 homes. After 4 months there were problems with it, and it had to be taken ashore. Many different companies continue to work on protypes to make this form of energy production viable. Wave energy will be much like wind and solar power, it is dependent on the strength of the waves at the time. Because of the research and development needed to harness wave power it is expensive to produce.

Research is being done to assess

these projects and how to make them

| Name: Date:  |               | 19       |
|--|---------------|----------|
| Occan Power - Questio  | 15            |          |
| True or False Circle whether the statement is true   | or false      |          |
| Ocean power is non-renewable energy.   | True          | False    |
| <ol><li>Tidal power is like hydroelectric power because tides occur regularly twice<br/>so the power generated is reliable.</li></ol>  | e a day, True | False    |
| 3. Wave power is like wind and solar power because the strength of waves is variab   | le. True      | False    |
| Ocean poy an be created anywhere there is a shoreline.   | True          | False    |
| 5. More res development are needed before wave power is widely   | used. True    | False    |
| Questions  Use information from the important of the impo | <b>\</b>      |          |
| 1) How are tidal power and hydroelectric power similar?  2) Why is tidal power considered a flow resource?   |               | <u> </u> |

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#### Overfishing

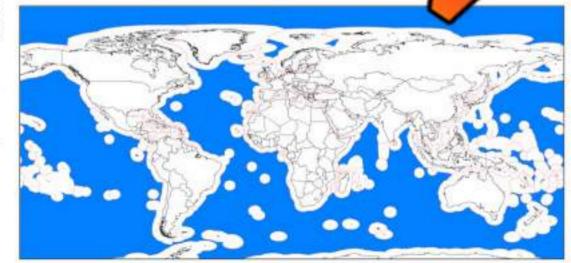
Overfishing is when fish are caught faster than they can replenish themselves. People who live in coastal communities have relied on fish as their main source of food for thousands of years. Fish were caught with spears, hook and line and throw nets which are all sustainable forms of fishing. As the world population grew and the demand for food increased, fish became an important industry. Fish were an important source of protein because it the preserved for years by drying, salting or pickling.

Resolute are on land have distinct territories and ownership. Ocean fish are not confidence to bic boundaries. Fish live and swim in water where, the water tempered and ability to escape predators allow their species to thrive. They swim and control countries' boundaries. For this reason, fish are called common pool cause one owns the fish, everyone shares this resource. Ships were also in whether they wanted.

From the early property of the same of fished on the Grand Banks. The same of fish that had taken the catch, was caught in just 15 years. Canadians started to be concerned that depleting the fish stocks. Other country is similar to shout their fish resource. By 1980, 30% of the world's fish stocks were being a fish.

The United Nations met and created the Wation of the Law of the Sea which Canada signed in 1982 stating that every law as a rights to the resources within a 200-mile radius of their shore. This steril of fishing on the Grand Banks, but Canadians increased their fishing until 22 to depleted to less than 10% of its original numbers. The Canadian government of the North Atlantic cod fishery in 1992 hoping the fish would retain and re-

establish itself in a few years. This did not happen. Currently lobster, snow crab and shrimp produce a similar amount of revenue for Canadian fisheries that the cod fisheries did.



| Name:  | Date:  |             | 25          |  |  |  |  |  |  |  |
|--|--|-------------|-------------|--|--|--|--|--|--|--|
|  | Overfishing - Questions  |             |             |  |  |  |  |  |  |  |
| True or False                                    | Circle whether the statement is true or false                                  |             |             |  |  |  |  |  |  |  |
| 1. Fish are a renewable                          | e resource that will always be available.                                      | True        | False       |  |  |  |  |  |  |  |
| 2. Thirty percent of the that fish being extinct | ne world's fish stocks are being overfished which will lead to                 | True        | False       |  |  |  |  |  |  |  |
| 3. Fishing boats only f                          | 3. Fishing boats only fish off the shorelines of their own country.  True      |             |             |  |  |  |  |  |  |  |
| 4. Lobster, sparab a                             | and shrimp have replaced the cod fisheries in Atlantic Canada.                 | True        | False       |  |  |  |  |  |  |  |
| 5.When a p                                       | aced on cod fishing on the Grand Banks, the cod fish<br>onbers after 15 years. | True        | False       |  |  |  |  |  |  |  |
| Questions  | Use information from the text  | r           |             |  |  |  |  |  |  |  |
| 1) What is overfishing                           |  | <b>&gt;</b> | <b>&gt;</b> |  |  |  |  |  |  |  |
| 2) What is the United                            | Nations Convention of the Law of the Sea?                                      |             |             |  |  |  |  |  |  |  |
| <u> </u>   |  |             |             |  |  |  |  |  |  |  |

| Name: | Date: | 26 |
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## Desertification

#### Desertification

Desertification is when a fertile land area turns into a desert because of drought, global warming, deforestation, overgrazing and human activities. Desertification happens in areas that are drylands where humidity is very low. Drylands cover 41% of the earth's land surface and are home to 2 billion people. When people live in an area, they need resources such as food, water and crops. These resources need to be replenished and the needs of the people living on the land. In drylands, water is scarce and often drough then there is no rainfall for prolonged periods.

allow the hals to being people continue to use what little water an area has and when they allow the hals to bring vegetation, creating a greater demand on the area for resources than can be repleted by the half of time if people take more resources from drylands than can be replenished, the dry come to be to sustain any people or animals. Increasing populations and global warmand any globa

By the year 2000 between % of the year already at risk of desertification. The United Nations recognizes desertification as on ggest environmental threats the world faces. Deserting on is a though the year already at risk of desertification. The desertification than any other continent.

The biggest causes of desertification are human activities including:

- Overpopulation more people living closer together where there is not encount poort their activities.
- Deforestation people cut down the trees and shrubs for shelter and fuel leaving the ground bare and open to wind erosion.
- Overgrazing people used to move their livestock from one area to another which allowed the
  vegetation to recover between times when animals grazed on it. Now they often stay in one place
  allowing their animals to exhaust the pastures without giving time for the vegetation to recover.
- Switching the type of animals raised Goats produce valuable cashmere but they eat the vegetation, roots and all, leaving pastures bare and open to erosion, where sheep eat the grass and move to another are of the field allowing the pasture to recover.



Name: 28 Date: Desertification - Questions Visualizing Draw what you were picturing in your head while you were reading om the text made you picture that in your head? tion from the text to support your answer Questions 1) What is desertification According to the map, which areas are at the most re-True or False Circle whether the statement is true or false 1. Deserts only occur close to the equator. True False 2. Global warming is affecting the amount of desert land there is in the world. True False 3. Drylands cover 41% of the earth's land surface True False False 4. Desertification is not a big environmental problem. True 5. Human activities are one of the main causes of desertification. True False

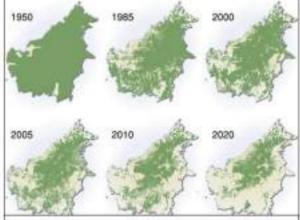
|          |       | 1000 |
|----------|-------|------|
| Name:    | Date: | 29   |
| Tall the | Date. |      |



#### Deforestation

Deforestation is when trees in a forest are cut down, so that humans can use the land for other activities. Deforestation has led to the loss of 10 million square kilometers of tropical rainforest leaving just 6 million square kilometers of rainforests. Forests are an important resource. They provide habitat for wildlife and the plants in the forests provide important ingredients for medicine. Trees are important in the battle against climate change. Trees absorb carbon dioxide in their roots and leaves and give off oxygen. Trees cool the earth providing statement of the providing statement of the providing to greenhouse gases. If the trees are burned, more carbon dioxide in the roots are released into the air. A tree that has been cut down is a significant of the provide.

Tree in a for the proportion of the proportion o



Deforestation in Borneo 1950-2005

the land that has been cleared grazing exchausted with grass not being able grow bot and dusty earth and farm at clear and land to support their cat

In Mala, the pair to grow palm tre pair to grow palm tre pair to ge deforestation is climate characteristics. The pair to ge has caused increased tempton to ge wildfires that are more set 23% of deforestation is the result of wildfires.

#### What can be Done About Deforestation?

There are several things we can do about deforestation including:

- Eat less meat- if there is less demand for beef, less grazing land will be needed.
- Plant a tree
- Boycott products that have palm oil- Palm Oil plantations are replacing rainforests. If there is less demand for the product there will be less plantations needed.
- Go paperless as much as possible. Don't print pages needlessly.
- Reduce, reuse and recycle.
- Choose wooden items made from bamboo rather than less sustainable types of wood.

| Name:   | Date:  |           | 30       |
|---|--|-----------|----------|
| 2000  | respectation - Acresements                           |           |          |
| True or False                                       | Circle whether the statement is true or fals         | e         |          |
| 1. It does not cause any harm                       | to cut trees down if you plant crops in their place. | True      | False    |
| Cutting down rainforests I have lost their habitat. | eads to some animals becoming extinct because they   | True      | False    |
| 3. Eating less meat helps pre-                      | vent deforestation.                                  | True      | False    |
| 4. Trees hav mpact on the                           | he water cycle.                                      | True      | False    |
| 5.Cutting d causes                                  | greenhouse gas emissions.                            | True      | False    |
| Sum   | mmarize the reading by writing the important in      | formatio  | on       |
| Questions   |  | answer    |          |
| 1) What are the problems ca                         | used by deforestation?                               |           | <b>)</b> |
| 2) Should Canadians have an land? Why or Why not?   | y say about what people in South America or Malay    | sia do wi | th their |
|   |  |           |          |

| Name: | Date: | 31 |
|-------|-------|----|
|       |       |    |

## Netural Resources Ethical Use

#### Natural Resources Ethical Use

Every country has some natural resources. The people in each country rely on the resources around them to live. Sometimes when natural resources are discovered in an area the people who live in that area are displaced or disadvantaged in some way that causes them to be treated unfairly or causes them harm.

In New York of the Maori people first settled New Zealand in 1300. In the 1850's European settlers come the Maori. The Maori have a tradition of protecting nature. To this tribe program of the first active is a way to respect their ancestors and to make sure they have resources for the first out are beginning to understand that the indigenous people who have lived on the first operation of protect it. Often indigenous people are opposed to development from interest of the first operation of the first operation but they are first of the first operation operati

In South America land that is controlled Indigent copied beforestation rates that are 2-3 times lower than other areas. Allowing indigenor the top color of their land is an economical way to fight climate change. In Kenya conserving the land for which community have been successful in conserving some land for which conserving that offset the cost of losing the land for animal herding. In Color and land east of Winnipeg over to First Nations, protects the land and habitat from uncertainty and logging.



Governments are beginning to recognize that indigenous people are good at conserving nature for future generations. The values reflected by indigenous people in protecting the environment are recognized by the United Nations in their document the United Nations Declaration on the Rights of Indigenous People.

| Name:   | Date:   |          | 32    |
|---|---|----------|-------|
| Neture  | l Resources Ethical Use - Que                                     | stion    | 18    |
| True or False                                 | Circle whether the statement is true or false                     |          |       |
| 1. Indigenous people                          | stop the productive use of land.                                  | True     | False |
| 2. Indigenous values                          | support conservation.   | True     | False |
| 3. There are many example save the environmen | examples around the world of indigenous people who protest to nt. | True     | False |
| 4. Indigenous                                 | ship of land has no affect on the environment.                    | True     | False |
| 5. The right                                  | py people have often been disregarded in the name of progress.    | True     | False |
| 2) Do you think ind<br>hundred years ago?     |   | nem ove  | r a   |
| Making Connec                                 | What does this reading remind you of in                           | your lif | e?    |
|   |   |          |       |

| Name: | Date: | 33 |
|-------|-------|----|

## The Tragedy of the Commons

The Tragedy of the Commons is an article written by Garrett Hardin, who describes a field in a village square that is not owned by any one person and on which local people can bring their cows to graze for free. At first everyone brings one cow to the field, but eventually, the users realize that they will get more benefit if they bring additional animals there to graze for free. If more animals are brought to the field, the grass will not be able to recover fast enough to continue to support all the cows and the field will be ruined. The users make the choice to bring extra cows because they will benefit more personally from having more cows grazing toda. They know they cannot control the others who can also add additional cows. In the end the choice to overuse the field and soon they have nowhere for their cows to graze because they will be produced grass. This highlights the problem that when no one ow

fish in the ocean buntry will. Because of this attitude the cod fisheries on the Grand Banks were extended as the cod fisheries on the

#### Solutions to the Tragedy of mo

Private Ownership - when people sor they want to preserve and maintain it and to protect it, but the benefit of the resource goes to the private owner.

Government ownership – when governments take ownership, they can regulate the use of the resource and make rules to protect it. Sometimes governments are less efficient than private owners so, prices for goods made with the resource may be more expensive.

Co-operation between users - Elinor Ostrom was

the first woman to win a Nobel prize in Economic Sciences. She believed that people could work together to share a resource if they had some rules for:

- how the resource could be shared
- how to resolve disagreements
- how to monitor whether people were following the rules
- what the consequences would be if they did not follow the agreed upon rules

The United Nations is an example of a group that helps make rules for how we share resources in the world.



| Name:                         | Date:   |      | 34       |
|-------------------------------|---|------|----------|
| The ?                         | fregely of the Commons - Ques   | tio  | 28-      |
| True or Fal                   | Circle whether the statement is true or false   |      |          |
| 1. The Tragedy                | oof the Commons is a way to understand cattle grazing.1                               | True | False    |
| 2. The Tragedy of using share | y of the Commons is an analogy to help us understand the difficulties<br>d resources. | True | False    |
| 3. The phrase                 | comes from an article written by Garrett Hardin.                                      | True | False    |
| 4. Governm                    | ol is the only solution to the Tragedy of the Commons.                                | True | False    |
| 5. There                      | Tragedy of the Commons that work in different situations.                             | True | False    |
|                               |   |      |          |
| Question                      | Use information from the text   | r    |          |
| 1) What is Elino              | or Ostrom famous for?   |      | <u> </u> |
| 2. What are the               | e 3 solutions to the Tragedy of the Commons?  |      |          |
| -                             |   |      | <u> </u> |

| Name: | Date: | 35 |
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# Sustainability

#### Sustainability

In 1987 the United Nations released the Brundtland Report called, Our Common Future. This report was a call to action for the world to consider the sustainability of all our activities.

The report, defines sustainability as, "meeting the needs of the present, without compromising the ability of future generations to meet their own needs."

The report draws attention to the increase in people who do not have their basic needs metal tions about the increasing amount of useful land that has been lost due to desertification es the threat of global warming, deforestation, acid rain and air and water possible action to reverse these negative environmental trends.

#### There a equal lead to sustainability including:

Economic Pillar e a is profit focused- Sustainability

must be financia.

Social Pillar - This pilla eop tainability focuses on equity, eradicating power of the vone tainability focuses

of life, and there are universal

Environmental Pillar - This pillar is ocus
conserving resources-protecting natur

wildlife- consuming resources at a rate at which the

can replace themselves.

How Can we Help Become More Sustainable?

- 1) Be informed consumers.
- Look for products without overpackaging.
- Only buy what you need -think reduce-reuse-recycle
- Be aware of endangered species and overfished species. Don't buy control for tuna.
- Be aware of social issues like the use of child labour in clothing manufacturing. Don't buy products from areas known for these practices.
- Look for fair trade products for example coffee, to make sure producers are being paid fairly.
- Be aware of brands that are endorsed by groups trying to produce goods in a more environmentally friendly way such as Wood Preservation Canada, when buying pressure treated wood or the Rainforest Alliance when buying palm oil.
- 2) Conserve fossil fuels-don't make needless car trips, carpool, walk and bicycle
- 3) Go paperless as much as possible don't print things that aren't necessary.
- Turn off electronics and lights when not in use.

Name: 36 Date: Sustainability - Questions Visualizing Draw what you were picturing in your head while you were reading from the text made you picture that in your head? Questions ation from the text to support your answer 1) Add 2 additional idea Become More Sustainable, section? 2) What is the Brundtland Report's definition of sustain True or False Circle whether the statement is true or false True False 1.Making a profit is the most important part of becoming sustainable. 2. Sustainability is concerned with, people, the planet and profits. True False 3. Making sure everyone has their basic needs met is an important part of True False becoming sustainable. 4. Our Common Future is the name of the Brundtland Report True False 5. Energy efficiency has nothing to do with sustainability. True False

| lan | ne   | _   |      |     |     |   |      | _    |      | Da            | te:_ |            |      |      |      |     |     | _    |      | 3              |
|-----|------|-----|------|-----|-----|---|------|------|------|---------------|------|------------|------|------|------|-----|-----|------|------|----------------|
|     | Et   | iv  | it   | ie  | S = | N | le   | BES  | re   | 1             | Re   | <b>S</b> @ | ELE  | 360  | 38   | A   | 701 | 5170 | d    | the World      |
| Wo  | rd   | Se  | arc  | h   | •   |   | Find | the  | e wo | ord           | banl | k w        | ord: | in   | the  | puz | zle |      | Ž.   | Word Bank      |
| D   | N    | I   | W    | J   | M   | Ε | ٧    | Q    | Ε    | L             | 5    | Ε          | С    | R    | U    | 0   | 5   | Е    | R    | Natural        |
| В   | Ε    | 6   | N    | I   | Q   | 6 | X    | V    | У    | F             | Ι    | U          | L    | J    | Х    | Ι   | В   | Т    | Т    | Resources      |
| G   | 6    | Х   | 5    | M   | I   | 0 | Α    | C    | Q    | W             | Н    | 5          | р    | L    | Z    | ٧   | Α   | Α    | у    | Flow           |
| K   | A    | D   | K    | Н   | w   | ٧ | W    | N    | ٧    | A             | P    | L          | 5    | C    | I    | M   | J   | M    | E    | Renewable      |
| C   | 5    | L   | ^    | M   | R   | E | Н    | Т    | 0    | Е             | G    | A          | I    | 0    | U    | ٧   | 0   | I    | У    | Fossil         |
| R   | Х    | F   | 5    | _   | V   | R | В    | Z    | K    | Q             | F    | R          | F    | D    | F    | Α   | С   | L    | Ε    | Fuels          |
| E   | F,   | J   | 1    | 0   | H   |   | Z    | 5    | J    | Ε             | Т    | U          | D    | D    | Х    | L   | J   | C    | F    | Trees          |
| Ν   | 4    |     | 5    | V   | 7   |   | ,    | R    | Q    | $\mathcal{C}$ | ٧    | Т          | J    | Т    | I    | Α   | Ν   | 5    | I    | Wildlife       |
| Ε   | K    | I   | L    | ~   | ١,  | , | 0    | S    |      | V             | U    | A          | L    | Ι    | 5    | 6   | У   | L    | L    | Hydroelectric  |
| W   | Н    | A   | Н    |     | Y   | 1 | У    | y    |      |               | 3    | N          | I    | N    | 6    | Ν   | G   | E    | D    | Gas            |
| A   | R    | L   | W    | ٧   | 0   |   | 7    | /    |      | X             | K    |            | D    | R    | D    | D   | Ν   | U    | L    | Mining         |
| В   | L    | Q   | D    | E   | F   | 0 | 1    | (    | V    | V             |      | -          | ŗ    | 8    | N    | K   | Ι   | F    | I    | Climate        |
| L   | Q    | U   | У    | D   | R   | T | В    | 5    | V    | G             |      | "          |      | Ų    |      | I   | Н   | Q    | W    | The second     |
| E   | R    | F   | X    | D   | N   | 0 | I    | T    | A    | C             |      | /          | I    | 1    | ,    | J   | 1   | E    | D    | Overfishing    |
| 0   | L    | 0   | У    | Q   | Q   | У | Q    | Q    | R    | Т             | 7    | 0          | ~    |      | F    | 7   | ۷.  |      | K    | Desertificatio |
| X   | 6    | Н   | Α    | L   | S   | Z | Α    | 0    | L    | Z             | W    | Т          | /    |      | U    |     | 5   | 2    | K    | Deforestation  |
| Т   | W    | D   | Z    | В   | G   | M | У    | 5    | 0    | Α             | Ν    | Ι          | Q    | 7    |      |     | X   | 5    | 1    | Government     |
| Т   | C    | D   | P    | P   | T   | D | X    | Р    | 5    | Н             | N    | Ε          | G    | Q    | C    |     |     | X    |      | K              |
| S   | E    | E   | R    | T   | 5   | J | L    | 5    | X    | У             | 5    | 5          | W    | V    | U    | Т   | 7   | 1    |      | 1 ~            |
| L   | М    | K   | J    | R   | Q   | Н | У    | J    | K    | W             | 0    | R          | У    | Ι    | ٧    | J   | 0   | F    | 4    | mass           |
| /or | 'd 9 | cr  | am   | ble | •   | T | Jns  | crar | mbl  | e th          | e w  | ord        | ban  | k w  | ord  | sfr | om  | abo  | ve   | Geothermal     |
|     | _    |     |      |     | 4   | _ |      |      |      |               |      |            |      | _    | - 20 | 223 |     |      |      |                |
| E   | ANE  | EWF | BLE  |     |     |   |      |      |      |               |      |            |      | C    | NFSL | .S  |     |      | 3    |                |
| TRE | EYIC | HLE | EDC  | OR  |     |   |      |      |      |               |      |            |      | M    | TCE  | AIL |     |      |      |                |
|     | LLE  | DIV | VIF  |     |     |   |      |      |      |               |      |            |      | IN   | IGM  | NI  |     |      |      |                |
|     | RAL  | JTN | AL   |     |     |   |      |      |      |               |      |            |      | ROC  | SSR  | EUE |     |      |      |                |
| V   | IDHO | GOE | NISI |     |     |   |      |      |      |               |      |            | ٨٥   | NIIO | ene  | DTS | ОТ  |      | - 65 |                |

| Name:                                   | ė.                     | Date:  |  |  |  |  |  |  |  |  |
|---|------------------------|--|--|--|--|--|--|--|--|--|
| Unit Test                               | - Nedwed Re            | sources Around the World   |  |  |  |  |  |  |  |  |
| Multiple Choice                         | /6                     |  |  |  |  |  |  |  |  |  |
| 1. Which of the follow resource?        | wing is a renewable    | 2. Which of the following is <b>not</b> a flow resource?                     |  |  |  |  |  |  |  |  |
| a) Fossil Fuel                          |                        | a) Waterfalls - Hydroelectricity   |  |  |  |  |  |  |  |  |
| b) Biomass                              |                        | b) The Sun – Solar Energy  |  |  |  |  |  |  |  |  |
| c) Coal                                 |                        | c) Wind  |  |  |  |  |  |  |  |  |
| d) Natural Gag                          |                        | d) Fossil Fuels  |  |  |  |  |  |  |  |  |
| 3. Which of resource?                   | ing is a non-renewable | Which form of energy uses heat from the<br>Earth's core?                     |  |  |  |  |  |  |  |  |
| a) Coa                                  |                        | a) Biomass   |  |  |  |  |  |  |  |  |
| b) Biomass                              |                        | b) Geothermal  |  |  |  |  |  |  |  |  |
| c) Geothermal enc                       | 9 7 7                  | c) Solar   |  |  |  |  |  |  |  |  |
| d) Solar energy                         | V/ W                   | d) Hydroelectricity  |  |  |  |  |  |  |  |  |
| 5. The burning of wh<br>climate change? | nich resource to       | ich form of energy is when we use plants or<br>terial to create electricity? |  |  |  |  |  |  |  |  |
| a) Timber                               | ~ /                    | Coal Coal  |  |  |  |  |  |  |  |  |
| b) Waste                                | _                      | b).B   |  |  |  |  |  |  |  |  |
| c) Fossil Fuels                         |                        | Serro Serro  |  |  |  |  |  |  |  |  |
| d) Hydro                                |                        | d) Solar   |  |  |  |  |  |  |  |  |
| Definitions (1 marks                    | each) /3               |  |  |  |  |  |  |  |  |  |
| Term                                    | Defi                   | nition (what does it mea   |  |  |  |  |  |  |  |  |
| Deforestation                           |                        |  |  |  |  |  |  |  |  |  |
| Flow Resource                           |                        |  |  |  |  |  |  |  |  |  |
| The Tragedy<br>of the<br>Commons        |                        |  |  |  |  |  |  |  |  |  |

| Short Answer Questions (2 marks each) /6  |             |
|---|-------------|
| What is the difference between a renewable and non-renewable resource?  |             |
| 2. Why are some indigenous groups upset about how natural resources are being used on t   | their land? |
| 3. What Pishing? I we be worried about it?  |             |
| 3. What straining? we be worried about it?  |             |
| ong Answer Questions  What does sustainability mean? What kinds of the same human are not leading sustainability? What can we do to become more sustainability? | to          |
| sustainability: what can we do to become more sustain   |             |
|   | <b>-</b>    |
|   |             |
|   |             |
|   |             |