



# Preview – Information



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# Google Slides Lessons Preview






# Ontario Geography

## Physical Patterns in a Changing World– Grade 7

### 3-Part Lesson Format

#### Part 1 – Minds On!

- Learning Goals
- Discussion Questions
- Quotes
- And More!




### Landform Processes

**DISCUSSION QUESTIONS**

- 1) What do you think is inside the Earth if we could cut it open?
- 2) Do you think the inside is solid, liquid, or something else?
- 3) Do you think it's hot or cold inside the Earth? Why?
- 4) How might the inside of the Earth help shape landforms?





### Landform Processes

Match the words to their short, simple meanings.


1) Landform	A Movement of soil and rock by wind, water, or ice
2) Weathering	B Large pieces of crust that slowly move on the mantle
3) Erosion	C Sudden shaking of the ground from plate movement
4) Volcano	D Molten rock inside the Earth
5) Earthquake	E Outer shape or feature on Earth's surface
6) Tectonic Plates	F Soft outer layer of the Earth we live on
7) Mantle	G Hottest, deepest layer of the Earth's inside
8) Crust	H Wearing down rocks into smaller pieces
9) Magma	I Very hot rock layer under the crust that moves slowly
10) Core	J Molten rock erupting through the surface to make land

#### Part 2 – Action!

- Surveys/Polls
- Matching
- Drag and Drop
- Videos
- And More!

#### Part 3 – Consolidation!


- Exit Cards
- Quick Draw
- 3-2-1 Reflection
- One-Sentence Summary



### Consolidation

**DRAW AND LABEL**

Draw and label five examples of **landforms** found in Canada. Include their names, shapes, and one short fact about each to show what makes them special.





# Ontario Geography

## Physical Patterns in a Changing World- Grade 7

### Volcanoes

Drag and place the terms into the blanks to complete the sentences.

- 1) \_\_\_\_\_ is hot, melted rock found under the Earth's crust.
- 2) When magma reaches the Earth's surface, it is called \_\_\_\_\_.
- 3) \_\_\_\_\_ volcanoes have gentle slopes made from thin, fast-flowing lava.
- 4) Tall, cone-shaped volcanoes made from many eruptions are called \_\_\_\_\_.
- 5) \_\_\_\_\_ volcanoes are small and formed from one short eruption.
- 6) The largest volcano on Earth is \_\_\_\_\_ in Hawaii.
- 7) \_\_\_\_\_ is the tallest volcano when measured from the ocean floor.
- 8) The \_\_\_\_\_ is the most active volcanic zone in the world.

- Shield
- Cinder Cone
- Mauna Kea
- Lava
- Mauna Loa
- Ring of Fire
- Magma
- Stratovolcanoes

### Valleys

Put the letter **A** or **B** into the box to show your answer.

- 1) Which valleys are shaped by moving glaciers?  
A) U-shaped      B) V-shaped
- 2) Which valleys are created along fault lines?  
A) River      B) Tectonic
- 3) Which valley type is found in lowlands?  
A) Glacier      B) River
- 4) Which valleys form in high mountain areas?  
A) Glacial      B) River
- 5) Which valleys form in soft rock faster?  
A) Narrow      B) Wide
- 6) Which Canadian valley is river-carved?  
A) Fraser      B) Okanagan
- 7) Which valleys often have fertile soil?  
A) Tectonic      B) River
- 8) Which valleys can be several kilometres wide?  
A) River      B) Glacial

### CROSSWORD

Do the crossword puzzle below about Wetlands

**Across**

- 2) Wetland with trees, spongy land, and flooded plants.
- 4) Small still water body, natural or made by humans.
- 5) Wetland with basic soil and many wildflowers.

**Down**

- 1) Wetland without trees, home to birds, fish, and frogs.
- 2) Soil or sand carried by water and dropped in wetlands.
- 3) Wetland with peat, acidic water, and low nutrients.



# Ontario Geography

## Physical Patterns in a Changing World- Grade 7

**Invasive Species**

Find the words in the wordsearch.

Zebra	Mussel
Purple	Loosestrife
Ballast	Plankton
Wetland	Crops
Beetles	Native
Invasive	Species

Wordsearch grid:

```

K S P E C I E S Y N L R W Y N U U D R S
J D S I W P J F E C A K P Q T O U D S B
X K M L N J U L O O S E S T R I F E B U
R F W U W V I R B F D E E G V O Q X D J
J T A J S E A N P V T S V Z Z E B R A X
W H J C Y S T S F L S E L T E E B T M A
M M E W O W E L I H E P I T J I E S G V
J A A M E O C L A V R S P O R C V A J U
R D N A M K A I K N E L O Z N E I L L B
Y K V H B F Z L F N S C K S C G A A J P
T J V N O P X P L A N K T O N J N B P T
  
```

**El Niño or La Niña**

Decide if the statement is about El Niño or La Niña.

Statement	El Niño or La Niña
1) This event happens when Trade Winds become weaker than normal.	
2) Warmer water moves east toward South America.	
3) Can make Atlantic hurricane seasons stronger.	
4) This event happens when Trade Winds blow stronger than normal.	
5) Brings warmer, drier winters to western Canada and Pacific Northwest.	
6) Cooler water builds up along South America's coast.	
7) Pushes the Jet Stream farther north than usual.	
8) Causes heavy rain and flooding in the southern United States.	
9) Often causes wetter summers in Australia, sometimes with flooding.	
10) Pushes the Jet Stream farther south than usual.	

Illustration of a stick figure holding a sign that says "El Niño" and "La Niña".

**Topographical Map**

Read the clue & match the correct contour line pattern.

Cause	Effect
Lines very close together all the way around the hill	A Peak
Lines close together on one side, far apart on the other	B Steep slope
Large loops spreading farther out from the centre	C One steep side
Lines far apart with only gentle curves between them	D Lower elevation
Several loops forming a long narrow shape between higher ground	E Gentle slope
Smallest loop in the centre of all other loops	F Valley

Illustration of a topographical map showing contour lines and a mountain peak.



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## Natural Resources Around the World– Grade 7

### 3-Part Lesson Format


#### Part 1 – Minds On!


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### Climate Change & Renewable Energy

#### DISCUSSION QUESTIONS

**A**

**B**

- 1) Which picture, A or B, do you think is cleaner for the air? Why?
- 2) What might happen if the world only used energy like picture A?
- 3) Do you think renewable energy can fully replace Non-Renewable? Why?
- 4) If you were a leader, would you invest more money in A or B?



### Climate Change & Renewable Energy

Read each cause. Match it with the effect it had on people or the environment.


Cause	Effect
Burning fossil fuels releases carbon dioxide into the atmosphere	<b>A</b> Produces renewable electricity that is clean and cost effective
Greenhouse gases trap heat like a blanket around Earth	<b>B</b> Adds large amounts of greenhouse gases into Earth's atmosphere
Glaciers melt faster in the Arctic and other cold regions	<b>C</b> Causes ocean levels to rise and reduces fresh water supplies
Canada builds hydroelectric plants across its rivers and lakes	<b>D</b> Helps countries agree on renewable energy targets and emission cuts
The United Nations works with countries to cut greenhouse gases	<b>E</b> Reduces crop yields and increases food shortages worldwide
Droughts become more common in farming regions	<b>F</b> Warms the planet, leading to climate change and global problems

#### Part 2 – Action!

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#### Part 3 – Consolidation!


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### Consolidation

#### THREE SENTENCE SUMMARY

Write three sentences that explain what **climate change** is, how **greenhouse gases** cause it, and why **renewable energy** is important for protecting people, the environment, and the future.





# Ontario Geography

## Natural Resources Around the World- Grade 7

### Renewable Energy

Read the paragraph. Use the word bank to fill in the missing words.

Renewable energy comes from natural \_\_\_\_\_ that can be used again and \_\_\_\_\_. Wind farms use tall \_\_\_\_\_ with blades that spin and turn \_\_\_\_\_. Solar panels capture light from the \_\_\_\_\_ and change it into \_\_\_\_\_. Biomass uses plants, waste, and animal \_\_\_\_\_ to create fuel like \_\_\_\_\_. Renewable energy reduces harmful \_\_\_\_\_ gases but can still be very \_\_\_\_\_ to build.

**Word Bank:** Electricity, Ethanol, Repeated, Expensive, Sun, Turbines, Sources, Greenhouse, Generators, Manure

### Fish Stocks & Overfishing

Put the following statements into two groups:

**statement is correct**      **X The statement is incorrect**

1) Early explorers salted fish so it would last entire long voyages.	
2) Shrimp, lobster, and snow crab now replace cod for Canadian fisheries.	
3) Overfishing happens when fish are caught faster than they reproduce.	
4) Bycatch has no negative effect on smaller species or ecosystems.	
5) The Law of the Sea gives control 50 miles offshore.	
6) Fish are considered common pool resources since no one owns them.	
7) Tuna populations fell because smaller prey fish were destroyed.	
8) In the 1500s, cod were so scarce explorers avoided Newfoundland.	
9) More than 120 million people work directly in fishing and fish farming.	
10) The Canadian cod moratorium quickly restored fish stocks within five years.	

### CROSSWORD

Do the crossword puzzle below using the key terms and clues.

**Across**

- A period with very little or no rainfall.
- Fertile land slowly turning into desert over time.
- Animals eating too much grass and plants in one place.

**Down**

- Soil being carried away by wind or water.
- People moving to another place to survive.
- Cutting down trees and leaving the ground bare.





# Ontario Geography

## Natural Resources Around the World- Grade 7

**Deforestation**

Find the words in the wordsearch.

Deforestation	Rainforest
Carbon	Oxygen
Greenhouse	Erosion
Flooding	Climate
Wildfire	Grazing
Roots	Habitat

U V R M M O D F D G E L M K L C D F Y L R G  
A C T M Z M L V B G I X Q B P X F Y E C K T  
X U M O M K W S E Q J W Q W V D K H L O O O  
R O Q S D U M G R E E N H O U S E U J O B E  
Y H K P R A I N F O R E S T L N E G Y X O R  
Z A F C N B K X L E Y H N Z A W U C K U O O  
P B J O N O L U O B X E P M E V N A N H K S  
W I L D F I R E O R N H G J T A J R E M T I  
J T Y M T D Z K D O M Y V L A U N B Z Q L O  
W A K H A C H A I O S H C X M F X O K F Q N  
G T J F S Z R H N T N W E O I B W N D A O M  
G R A Z I N G O G S I V R R L X G H Q M O C  
U D E F O R E S T A T I O N C B D P G K L V

**Natural Resources**

Read the situations. Decide if each shows ethical use of natural resources.

1) A company cuts down a forest but plants new trees after.	
2) A pipeline is built on Indigenous land for profit without consulting local people.	
3) A business clears sacred river water fairly between farming and wildlife needs.	
4) A community shares river water fairly between farming and wildlife needs.	
5) A mining project pollutes a local lake and harms fish habitats.	
6) A town builds wind turbines to create renewable electricity for local homes.	
7) A fishing boat takes more fish than allowed, harming the fish population.	
8) Farmers rotate crops to keep the soil healthy for future harvests.	
9) A city recycles materials like glass, plastic, and paper to save resources.	
10) A dam is built that floods Indigenous land without fair discussion.	

Yes  
No

**Actions On Sustainability**

Move the letter A or B into the box to show your answer.

1) Which year created the UNEP program?	A) 1972	B) 1992
3) Which summit made the Agenda 21 plan?	A) Paris	B) Rio
5) Which year set Millennium Development Goals?	A) 1987	B) 2000
7) Which deal aimed to stop warming above 2°?	A) Paris	B) Kyoto
2) Which report first defined sustainability clearly?	A) Rio+20	B) Brundtland
Which deal cut greenhouse gas emissions?	A) Kyoto	B) Paris
6) Which meeting created "The Future We Want"?	A) Rio+20	B) Paris
8) Which summit had 178 countries attending?	A) Kyoto	B) Rio