



Preview - Information



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Google Slides Lessons Preview





Alberta Science Curriculum Matter Unit – Grade 2

3-Part Lesson Format

Part 1 – Minds On!

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

WHAT ARE MATERIALS?



LEARNING GOAL

We are learning to **identify different materials** so we can **learn about what things are made of** and **why we use certain materials for different objects.**

WORD SEARCH – MATERIALS WE USE

Find the 13 words in the puzzle. Circle each word. Use the list to help you.

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

Metal	Chair
Wood	Table
Plastic	Bottle
Fabric	Lamp
Glass	Window

Part 2 – Action!

- Writing
- Matching
- Drag and Drop
- Drawing
- And More!

Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

Consolidation – Reflection

Complete these sentences to show what you learned about materials. Use what you know about what things are made of and why we use different materials.

- 1) I learned that materials are used to make _____
- 2) Something made from wood is _____
- 3) Something made from metal is _____
- 4) Something made from plastic is _____
- 5) Something made from fabric is _____
- 6) Knowing about materials helps me understand _____



Alberta Science Curriculum Matter Unit – Grade 2

NATURAL OR HUMAN-MADE MATERIALS?

Look at each material. Drag or place it under the correct heading to show where it comes from.

		Natural	Human-Made

LIFE PRESERVERS HELP IN WATER

What happens on the left. Draw a line to match it with what we see on the right.

What Happens		What Do We See?
A life jacket is worn in water	1	A The person can grab it
A life ring is thrown to someone	2	B It floats on the water
A life preserver has air inside	3	C It helps keep people safe
A person holds a life ring	4	D A person stays above water
A life preserver is used near water	5	E They are easier to pull back

WATERPROOF

Read the paragraph about waterproof materials. Write the correct word from the word bank to fill in the blanks.

Waterproof materials help keep _____ out. They are used to help us stay _____ on wet days. Some waterproof materials are _____ like in rain boots, and _____ like rain coats. These materials do not let water _____ through them.

Word Bank: pass, dry, water, plastic, rubber



Alberta Science Curriculum Matter Unit – Grade 2

REFLECTIVE OR TRANSPARENT
Read each sentence. Decide which category it belongs to.

1. A window lets light pass through it.
2. Shiny foil bounces light back.
3. A clear glass cup can be seen through.
4. A smooth metal surface shines in light.
5. A puddle shows reflections after rain.
6. A mirror shows your face clearly.
7. Plastic wrap lets light go through.
8. A metal spoon reflects light.

Transparent
Reflective

CHOOSE
Read each sentence. Drag the correct answer to the box.

1. It is used to hold papers together.
A) Nail B) Paperclip C) Rope
2. It is used to close a jacket or coat.
A) Button B) Zipper C) Tape
3. It is strong and holds wood together.
A) Glue B) Button C) Nail
4. It sticks light objects like paper.
A) Tape B) Screw C) Rope
5. It is twisted into wood using a tool.
A) Nail B) Screw C) Paperclip

A
B
C

Which worker would most likely use...

Carpenter	Engineer	Designer

Objects: Chair, T-shirt, Pipe, Arrow, I-beam, Sneakers



Workbook Preview



Grade 2 – Science Unit

Organizing Idea Matter: Matter: Understandings of the physical world are deepened by investigating matter and energy.

Guiding Question: How can the suitability of materials be determined for specific purposes?

	Learning Outcome - Students investigate direction, pathway, and speed of moving objects and animals.	Pages
M2.1	Materials are used to make objects	6 – 12, 43 – 59, 68 – 69
M2.2	Properties of materials that can be tested include:	33
M2.3		40
M2.4	the land, or the sky. Processed materials are made by humans	- 74
M2.5	An object can be made from different materials; e.g., a canoe can be made from wood or aluminum. Examples of objects made from natural materials that are created and used by First Nations, Métis, and Inuit are Dene birchbark baskets travois Red River carts canoes Inuit scrap	77 – 83
M2.6	Knowledge of the properties of materials and their purposes is important in many occupations and roles, such as carpenter engineer designer Knowledge Keeper or Elder First Nations, Métis, and Inuit use of materials is informed by traditional knowledge time of year availability taking only what is needed respect for the land	75 – 76
Computer Science:		
CS.1	Students apply creativity when designing instructions to achieve a desired outcome.	41, 60 – 67

Preview of 75 pages from
this product that contains
154 pages total.






NAME: _____

OBJECTS AND MATERIALS



Materials

Materials are used to make things we use. The chair you are sitting in is made of materials. Chairs are often made of metal, wood, and plastic. Common building materials are:

				
Wood	Wood	Plastic	Fabric	Glass

Matching


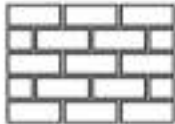








Draw a line from the thing made to the material it is made of

	●	●		●	●	Wood
	●	●		●	●	Metal
	●	●		●	●	Plastic
	●	●		●	●	Fabric
	●	●		●	●	Glass

Materials

Matching

Write the letter from the example beside the material

Material		Example
1)	Rubber <input type="checkbox"/>	A) 
2)	Plastic <input type="checkbox"/>	B) 
3)	Wood <input type="checkbox"/>	C) 
4)	Stone <input type="checkbox"/>	D) 
5)	Fabric <input type="checkbox"/>	
6)	Glass <input type="checkbox"/>	
7)	Metal <input type="checkbox"/>	G) 
8)	Brick <input type="checkbox"/>	H) 
9)	Wool <input type="checkbox"/>	I) 
10)	Leather <input type="checkbox"/>	J) 

Natural or Human Made Materials

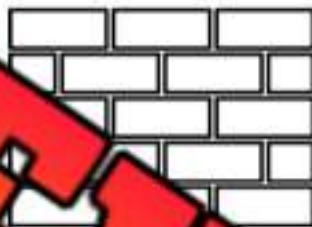
We use materials to make the things we need. Some of the materials we use are found naturally in our environment. These are materials you can look outside and see. Other materials are made by humans. These materials you would never see in nature without a human making it and putting it there.

Directions: Circle whether the material is natural or human-made

PREVIEW



Natural	Human-Made
Wool	



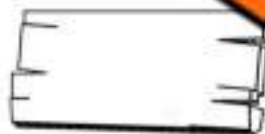
Natural	Human-Made
Brick	



Natural	Human-Made
Steel	



Natural	Human-Made
Clay	



Natural	Human-Made
Wood	



Natural	Human-Made
Leather	



Natural	Human-Made
Stone	



Natural	Human-Made
Glass	



Natural	Human-Made
Plastic	

Describing Materials

Directions

Circle adjectives that describe the material



Material		Example			
1)	Rubber	Strong	Weak	Flexible	Rigid
		Hard	Soft	Heavy	Light
2)	Paper	Strong	Weak	Flexible	Rigid
		Hard	Soft	Heavy	Light
3)	Wood	Strong	Weak	Flexible	Rigid
		Hard	Soft	Heavy	Light
4)	Stone	Strong	Weak	Flexible	Rigid
		Hard	Soft	Heavy	Light
5)	Fabric	Strong	Weak	Flexible	Rigid
		Hard	Soft	Heavy	Light
6)	Glass	Strong	Weak	Flexible	Rigid
		Hard	Soft	Heavy	Light
7)	Metal	Strong	Weak	Flexible	Rigid
		Hard	Soft	Heavy	Light

Exit Cards

Cut Out Cut out the exit cards below and have students complete them at the end of class.

Name: _____

Mark





Circle whether the material is
natural or human-made

			
Natural	Human-Made	Natural	Human-Made
Cotton Plant		Paper	
			
Natural	Human-Made	Natural	Human-Made
Tire (Rubber)		Sand	

Name: _____

Mark





Circle whether the material is
natural or human-made

			
Natural	Human-Made	Natural	Human-Made
Cotton Plant		Paper	
			
Natural	Human-Made	Natural	Human-Made
Tire (Rubber)		Sand	

Name: _____

Mark





Circle whether the material is
natural or human-made

			
Natural	Human-Made	Natural	Human-Made
Cotton Plant		Paper	
			
Natural	Human-Made	Natural	Human-Made
Tire (Rubber)		Sand	

Name: _____




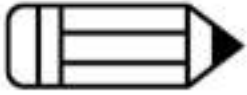
Mark

Circle whether the material is
natural or human-made

			
Natural	Human-Made	Natural	Human-Made
Cotton Plant		Paper	
			
Natural	Human-Made	Natural	Human-Made
Tire (Rubber)		Sand	


What are Objects?

Objects are the things we see in our lives. Objects can be touched. Some objects are made of just one material, while others are made of more than one material. Check out the examples below.

			
One Material Objects		More Than One Material Objects	

Directions

Write the number of materials the object is made of 1 or more than 1 material

	
1	More Than 1


	
1	More Than 1

	
1	More Than 1

	
1	More Than 1

	
1	More Than 1

	
1	More Than 1

	
1	More Than 1

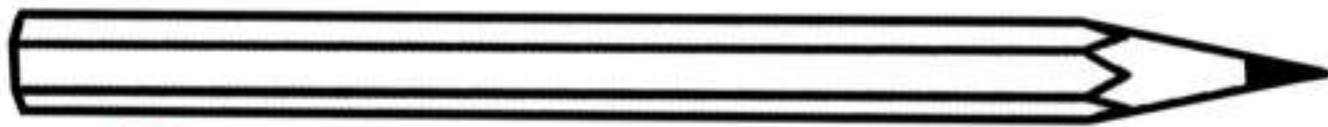
	
1	More Than 1

	
1	More Than 1

Objects Made of Materials

Directions

Look at the object and circle the materials it is made of



Metal

Wood

Glass

Rubber

Graphite



Metal

Wood

Rubber

Cloth



Metal

Wood

Plastic

Rubber

Cloth



Metal

Wood

Plastic

Rubber

Cloth

Directions

What materials are the objects in your life made of?

1) Your shoes



Cloth

Rubber

Stone

Metal

Wood

Plastic

2) Your school



Brick

Rubber

Stone

Metal

Wood

Plastic

3) Your desk or table



Cloth

Rubber

Glass

Metal

Wood

Plastic

4) Your chair



Cloth

Rubber

Stone

Metal

Wood

Plastic

5) A playground



Cloth

Rubber

Stone

Metal

Wood

Plastic

Experiment - Objects Sink or Float?

Research Question

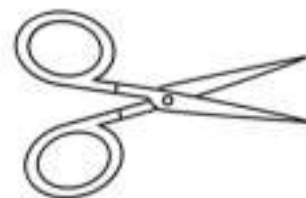
Will the objects sink or float?

If we put the object in water, will it sink or float?

Materials

What do we need for our experiment?

- 1) One bucket of water
- 2) 8 objects: scissors, eraser, paper ball, plastic water bottle, rock, pencil
- 3) Recording sheet



Method

How do we do the experiment?

- 1) One at a time, place the object in the water
- 2) Record whether it sinks
- 3) Answer the questions



Hypothesis

Will the object float or sink?

Objects You Will Test	Will it float or sink?
Scissors	
Pencil	
Eraser	
Plastic Block	
Rock	
Stick	
Water bottle	
Paper Ball	

Observations

Did the object sink or float?



Objects	Float or Sink
Scissors	
Pencil	
Eraser	
Clay Block	
Water Balloon	
Paper Ball	

Results

Answer the questions below

1) Do heavy or light objects float?

Heavy

Light

2) Do metal objects float or sink?

Sink

Float

3) Do wood objects sink or float?

Sink

Float

4) Do plastic objects sink or float?

Sink

Float

Research - Things That Float

Objects

Write down 5 objects that float

1)	
2)	
3)	
4)	
5)	

Materials

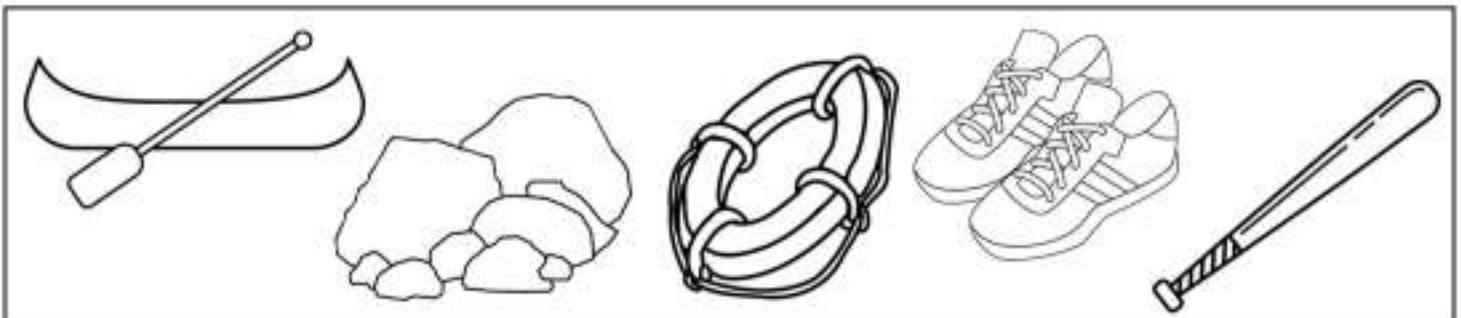
Write down 5 materials that float

1)	
2)	
3)	
4)	
5)	



Colour

Colour the objects that float



Sink or Float**Sink or Float?**

Will the object sink or float? Circle your answer.



Sink

Float

Sink

Float



Sink

Float

Sink

Float

Sink

Float



Sink

Float

Sink

Float

Sink

Float



Sink

Float

Sink

Float

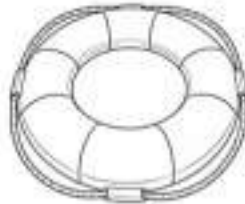
Sink

Float

Life Preserver

A life preserver is something that floats that saves people. There are two types.

- 1) The ones we wear – life jackets
- 2) The ones we throw – life rings



The first life preserver was made by the scientist Leonardo da Vinci. He made his out of cork and wood. Life preservers weren't used until the year 1855. In 1864, John B. Kisbee made a cork life belt.

Colour

the life ring and life jackets below

Life Ring

Life Jacket



Draw

Draw your own life ring and life jackets

Life Ring

Life Jacket

Questions

When would you use a life jacket or life ring?



1) You see someone in the water sinking	Life Jacket	Life Ring
2) You are going to go swimming in a lake	Life Jacket	Life Ring
3) You are going in a pool and can't swim well	Life Jacket	Life Ring
4) You see someone in a pool who can't swim	Life Jacket	Life Ring
5) You're in a hot tub and can't swim	Life Jacket	Life Ring

Making Connections

How have you used a life preserver before?

I used a life

_____**Draw**

Draw a picture of you using a life preserver

A large, empty rectangular box with a black border, intended for a student to draw a picture of themselves using a life preserver. A small illustration of a life preserver is visible in the top right corner of the box.

Stretchy Materials

Stretchy materials can stretch and bend easily. They're like rubber bands, but they can be used to make all sorts of things.

For example, you might have a pair of stretchy pants that you can wear when you're playing sports. The pants are made of a stretchy material that allows you to move around better.

Stretchy materials are also used to make things like elastic bands and gloves. Stretchy materials are good because they can be stretched and then go back to their shape.



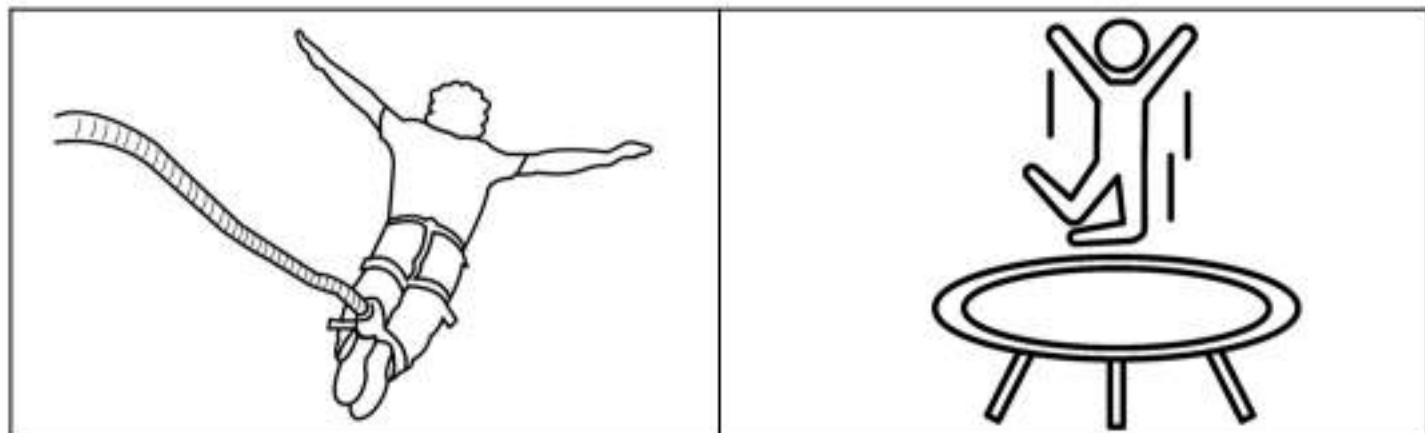
Draw

Draw 2 different objects made of stretchy materials

--	--

Draw

Colour the stretchy objects below



Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class

Name: _____

Mark

Is the statement true (T) or false (F)?

--

1) Stretchy materials can stretch and bend easily.	T
	F
2) Stretchy materials are used to make elastic bands.	T
	F
3) Sports clothing can be made from stretchy materials.	T
	F
4) Stretchy materials are only used for clothing.	T
	F

Name: _____

Mark

Is the statement true (T) or false (F)?

--

1) Stretchy materials can stretch and bend easily.	T
	F
2) Stretchy materials are used to make elastic bands.	T
	F
3) Sports clothing can be made from stretchy materials.	T
	F
4) Stretchy materials are only used for clothing.	T
	F

Name: _____

Mark

Is the statement true (T) or false (F)?

--

1) Stretchy materials can stretch and bend easily.	T
	F
2) Stretchy materials are used to make elastic bands.	T
	F
3) Sports clothing can be made from stretchy materials.	T
	F
4) Stretchy materials are only used for clothing.	T
	F

Name: _____

Mark

Is the statement true (T) or false (F)?

--

1) Stretchy materials can stretch and bend easily.	T
	F
2) Stretchy materials are used to make elastic bands.	T
	F
3) Sports clothing can be made from stretchy materials.	T
	F
4) Stretchy materials are only used for clothing.	T
	F

Can You Poke a Hole In a Balloon?

Hypothesis

Can you poke a hole in a balloon without popping it?

Yes

No

Materials

What do we need for our experiment?

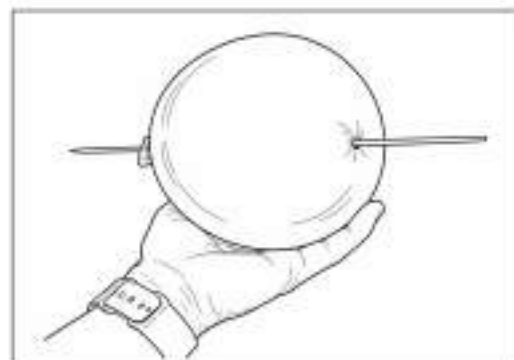
- 1) Balloon
- 2) Vaseline or Lip Chap
- 3) Wooden skewer



Method

How do you do the experiment?

- 1) Blow up the balloon about 1/2 way
- 2) Tie the balloon
- 3) Dip the pointy end of the skewer in the vaseline or rub lip chap on the pointy end
- 4) Stick the pointy end into the area near the knot that isn't fully stretched. The area will be darker.
- 5) Pull out the skewer
- 6) Try sticking the skewer into the opposite side of the balloon where there is a dark spot.
- 7) Stick the skewer right through the balloon and into the knot on the other side



Results

Answer the questions below

1) What happened when you poked the balloon?

2) If you poked the balloon in another place, what would happen?

3) Why didn't the balloon pop? Circle the correct answer.

- a) The balloon is stiff and won't stretch.
- b) The balloon is stretchy in those areas so it stretches around the stick.
- c) The balloon is stretchy so the hole opens up and stays open.

4) Draw a picture of the balloon with the stick through it

Waterproof Materials

Waterproof materials keep water out. They are used in things like raincoats and boots to keep us dry. Waterproof materials are made in a special way that doesn't allow water to pass through them.

The rain will slide off a raincoat made of waterproof materials. You'll stay dry. Waterproof materials are also used in rainboots to keep water out. If water could get into a rainboot, it would be a problem.

Rubber is one of the waterproof materials. Most rainboots are made of rubber. Water cannot get through rubber!



Yes/No

Is the answer yes or no?

1) Is rubber a waterproof material?	Yes	No
2) Is cotton a waterproof material?	Yes	No
3) Are raincoats made of fabric?	Yes	No
4) Are rainboots made of rubber?	Yes	No
5) Do waterproof materials let water in?	Yes	No

Draw

Draw 3 pictures of objects made of waterproof materials

--	--	--

Objects that Absorb or Repel Water

Solids that Absorb or Repel Water

When a solid gets wet, it will either absorb or repel water. Some solid materials repel water well and others absorb water well. **Repel** means that water does not get into the solid very well. **Absorb** means water gets into the material.



Solids that Absorb Water

- Sponges
- Paper towels
- Paper
- Face cloth
- Sock
- Cotton ball



Solids that Repel Water

- Raingear - raincoat or rubber boots
- Steel or metal
- Wax paper
- Styrofoam



True or False

Is the statement true or false?

1) Repel means to let water in	True	False
2) Absorb means to let water in	True	False
3) Rocks absorb water	True	False
4) Rubber boots repel water	True	False
5) A sponge absorbs water	True	False

Draw

Draw a solid that repels and a solid that absorbs water

--	--

Absorb or Repel?**Absorb or Repel?**

Will the object absorb or repel water? Circle your answer.



Absorb Repel



Absorb Repel



Absorb Repel



Absorb Repel



Absorb Repel



Absorb Repel



Absorb Repel



Absorb Repel



Absorb Repel



Absorb Repel



Absorb Repel



Absorb Repel





Exit Cards

Cut Out Cut out the exit cards below and have students complete them at the end of class.

Name: _____

Mark





Will the object absorb or repel water? Circle your answer.

			
Absorb	Repel	Absorb	Repel
Sponge		Umbrella	
			
Absorb	Repel	Absorb	Repel
Paper Towel		Raincoat	

Name: _____

Mark





Will the object absorb or repel water? Circle your answer.

			
Absorb	Repel	Absorb	Repel
Sponge		Umbrella	
			
Absorb	Repel	Absorb	Repel
Paper Towel		Raincoat	

Name: _____

Mark





Will the object absorb or repel water? Circle your answer.

			
Absorb	Repel	Absorb	Repel
Sponge		Umbrella	
			
Absorb	Repel	Absorb	Repel
Paper Towel		Raincoat	

Name: _____

Mark

Will the object absorb or repel water? Circle your answer.

			
Absorb	Repel	Absorb	Repel
Sponge		Umbrella	
			
Absorb	Repel	Absorb	Repel
Paper Towel		Raincoat	

Experiment - Absorb or Repel

Research Question

What objects absorb or repel water?

What materials will absorb water and what materials will repel it? Today, we will test the materials below.

Hypothesis

Will the material repel or absorb water?

Write your prediction under the material

Stone	Sock	Hand Towel	Glass or Plastic Cup	Cardboard

Materials

What do we need for the experiment?

- 1) Spray bottle filled with water
- 2) Materials to test
 - 1) Stone
 - 2) Rubber band
 - 3) Sock
 - 4) Hand towel
 - 5) Plastic or glass cup
 - 6) Cardboard



Method

How do we complete the experiment?

- 1) Students should predict whether each material will repel or absorb water
- 2) Working in groups or as a whole class demonstration, spray each material
- 3) Notice after you spray if the water soaks into the material or if it stays on the outside
- 4) Write down if the material absorbed or repelled the water

Observations

Did the material absorb or repel water?

Write absorb or repel under the material

Stone	Rubber Band	Sock	Hand Towel	Glass or Plastic Cup	Cardboard

Results Answer the questions below

1) Draw the materials that absorb water.

2) Draw the materials that repel water.

3) If you were cleaning up a mess of water, what materials would you use from the experiment? Which materials would you not use?

I Would Use**Not Use**

Materials – Catching Bubbles

Hypothesis

Which materials do you think will catch bubbles?

Sharp

Smooth

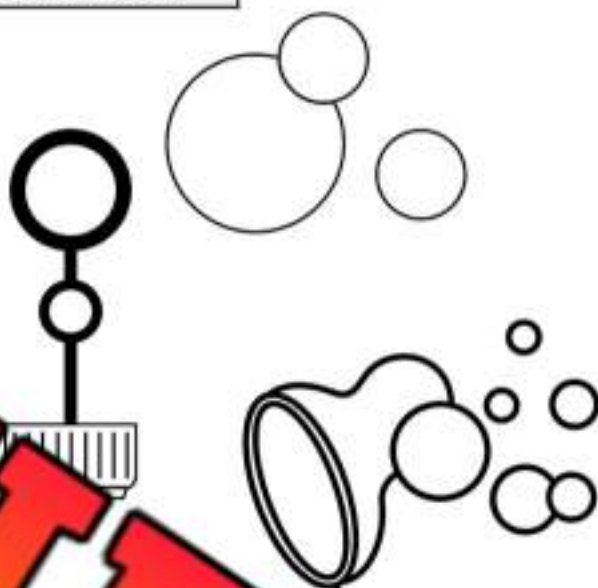
Waterproof

Absorbent

Materials

What do we need for our experiment?

- ✓ Bubble wand
- ✓ Food coloring to make bubbles with
- ✓ Paper towel
- ✓ Materials to test bubbles on
 - 1) Wax paper
 - 2) Aluminum foil
 - 3) Paper
 - 4) Plastic wrap
 - 5) Cardboard
 - 6) Pavement – bumpy surface



Method

How do we complete the experiment?

- 1) Setup your first material by putting it on a table or on the ground
- 2) Blow bubbles gently on to the material
- 3) Did the material catch the bubble or did the bubble break?
- 4) Record your results on the back of the page
- 5) Before trying the next material, use the paper towel to dry the area
- 6) Repeat the steps above for each of the materials



Observations

Which materials caught the bubbles?

Material	Yes	No
Wax Paper	Yes	No
Paper	Yes	No
Aluminum Foil	Yes	No
Plastic Wrap	Yes	No
Cardboard	Yes	No
Cement	Yes	No

Results

Answer the questions below.

1) Which materials were the best at catching bubbles?

Sharp

Smooth

Waterproof

2) What happened when the bubbles touched a bumpy material?

3) What happened when the bubbles touched a surface that sucked up the water?

Reflective Materials

What is a Reflective Material?

When something is shiny and light bounces off it, we say it is **reflective**. Reflective things work like mirrors - they let us see ourselves! They do this because they are smooth and clean, and they send the light right back to our eyes.

Reflective Materials/Objects

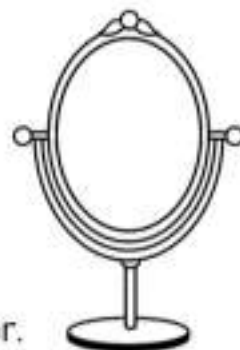
Mirror: We use mirrors to see ourselves. It is very reflective!

Foil: Shiny material we use to wrap food is also reflective.

Puddles: After it rains, puddles are shiny and reflective, like a mirror.

Shiny Metal: Things made from metal like a spoon or a car are reflective.

Reflective Tape: This special tape is used to make things like bike helmets and safety vests extra shiny so people can see them even in the dark.



Yes/No

Is the material reflective?

Material	Yes	No
1) Glass	Yes	No
2) Wood	Yes	No
3) Rubber	Yes	No
4) Foil	Yes	No

5) Mirror	Yes	No
6) Spoon	Yes	No
7) Rock	Yes	No
8) Tire	Yes	No

Draw

Draw 3 pictures of objects made of reflective materials

--	--	--

Experiment – Transparency of Materials

Objective

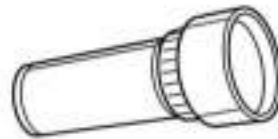
What are we learning about?

We are learning about materials that are transparent. **Transparent** materials are materials that let light pass through. This means we can see through transparent materials.

Materials

What do we need for our experiment?

- 1) Different objects of various materials:
Paper, Plastic, Cardboard,
Aluminum, Glass, Wood,
Fabric
- 2) Flashlight



Method

How do we complete the experiment?

- 1) Before you start the activity, explain what transparent means. Say, "Something is transparent if you can see through it, like a clear glass window!"
- 2) Have the students gather around a table with all the materials.
- 3) Let each student take turns picking up an object and predicting if they think it's transparent or not. They can say, "I think I can see through this," or, "I think I can't see through this."
- 4) After they make a prediction, they can test it out by shining the flashlight through the object. If light passes through and they can see the light clearly on the other side, the object is transparent. If no light comes through, it's not transparent.
- 5) Have the students record their findings on the back of this page.
- 6) After testing all the objects, discuss the findings as a group. Talk about why some materials let light through and others don't.

Observations

Is the material transparent?



Objects	Transparent - Yes or No?
Paper	
Plastic Wrap	
Cardboard	
Aluminum Foil	
Wood	
Fabric	

Results

Answer the questions below.

1) What colour are see-through materials?

2) Draw see through materials/objects below.

Which Object Has More Mass?

Mass is the amount of matter in an object/material. Objects with more mass have more weight.

Questions

Circle which object you think has more mass

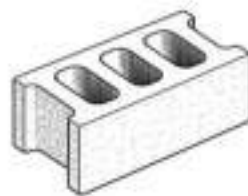
1)



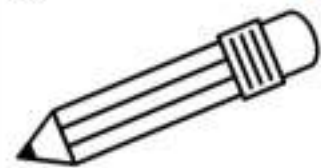
2)



VS



3)



VS

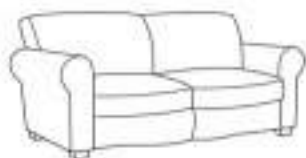
4)



VS



5)



VS



6)



VS



7)



VS



8)



VS



9)



VS



10)



VS



Non-Standard Units - Mass

Any object can be used as a non-standard unit of measurement for mass. However, it is better to use common objects that most people know the mass of. Here are some objects you can try: paperclips, marbles, bricks.

Part 1 Order the object's mass from least (1) to greatest (3)

Paperclips	Bricks	Marbles
------------	--------	---------

Part 2 You should use to measure the mass of the objects below?

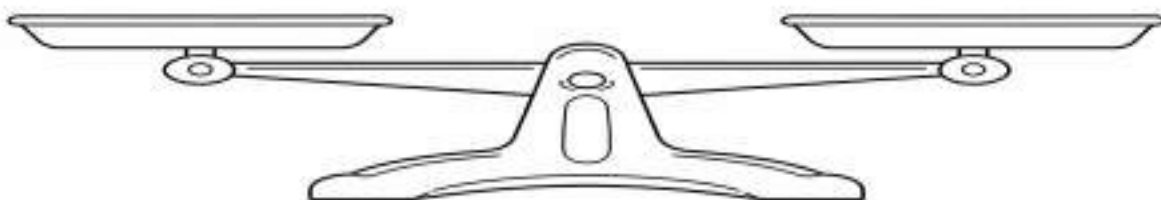
Objects - What non-standard unit should you use to measure the mass of the objects below?	Paperclip	Marble	Brick
1) Pencil	Paperclip	Marble	Brick
2) Ruler	Paperclip	Marble	Brick
3) Calculator	Paperclip	Marble	Brick
4) Chair	Paperclip	Marble	Brick
5) Apple	Paperclip	Marble	Brick
6) Glue stick	Paperclip	Marble	Brick
7) Empty pencil case	Paperclip	Marble	Brick
8) Desk	Paperclip	Marble	Brick
9) Water bottle	Paperclip	Marble	Brick
10) One paper	Paperclip	Marble	Brick

Non-Standard Units - Paperclips

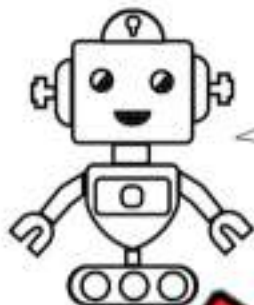
Directions

- 1) Estimate the mass in paperclips of each object.
- 2) Use a pan balance to measure the mass in paperclips of each object.

Object	Estimate - # of Paperclips	Mass - # of Paperclips
1) Pencil		
2) Ruler		
3) One paper folder		
4) Pencil Sharpener		
5) Scissors		
6) Glue stick		
7) USB flash drive		
8) Marker		



Coding – Making Materials



Hi, my name is Levi. My job is to take things from our environment and make materials from them. Can you help me by coding directions for me to get my work done?

Directions

Write the order of the code for making paper

Step Number	Code - Instruction
	Take the wood off the tree
	Cut the tree into small pieces called pulp
	Cut down trees
	Spread the pulp and press it into sheets
	Cut off the branches

Directions

Write the order of the code for making yarn

Step Number	Code - Instruction
	Turn the cotton balls into yarn
	Pick the cotton ball off the plant
	Dye the yarn to make it different colours
	Clean the cotton balls
	Use the coloured yarn to make clothing

Activities - Materials



Word Search

Find the words from the word bank

Rubber	Plastic	Wood	Fabric	Stone
Glass	Metal	Brick	Wool	Leather

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

Word Scramble

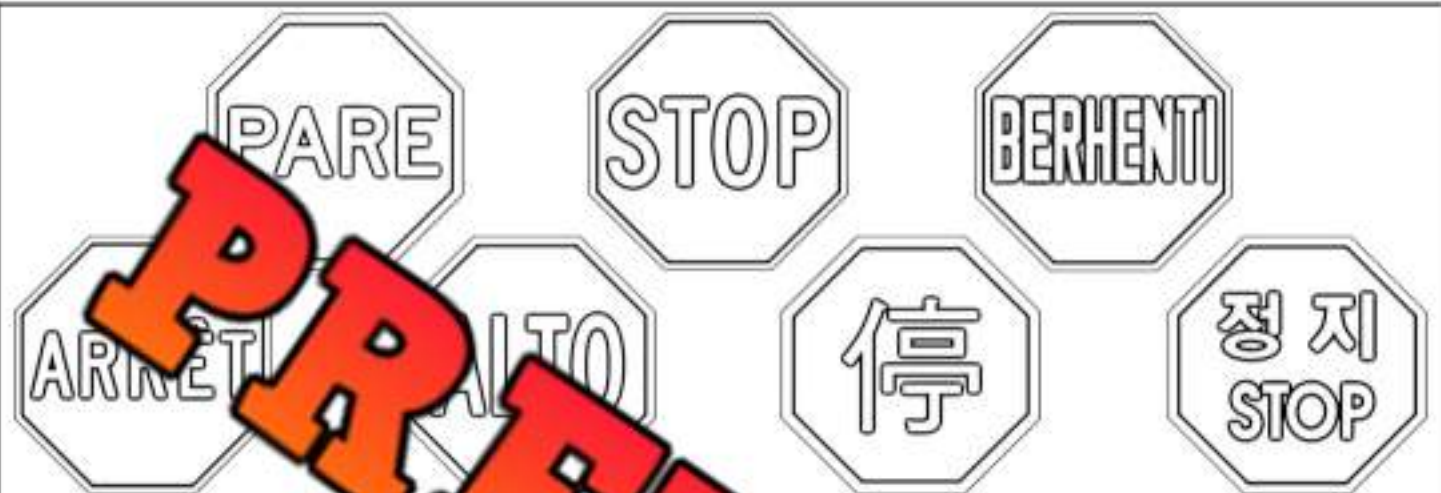
Unscramble the words from the word bank

REBBUR		FBAIRC	
SNOTE		WODO	
PTASILC		GALSS	
LHAETER		WLOO	
BICRK		MTAEL	

Recognizable Object in the World

Questions

Answer the questions below



1) It looks _____

2) Why do you think stop signs are red?









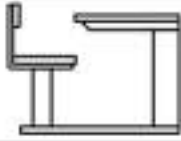
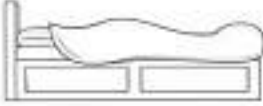
3) What shape are each of the signs? How many sides do they have?

4) Why do stop signs look the same in different countries?

Purpose of Object

Matching

Write the letter of the object beside the purpose

		Purpose	Object
1)	<input style="width: 40px; height: 20px;" type="text"/>	To brush your teeth with	A) 
2)	<input style="width: 40px; height: 20px;" type="text"/>	To step on	B) 
3)	<input style="width: 40px; height: 20px;" type="text"/>	To drink	C) 
4)	<input style="width: 40px; height: 20px;" type="text"/>	To keep you cool	D) 
5)	<input style="width: 40px; height: 20px;" type="text"/>	To keep you dry in the rain	E) 
6)	<input style="width: 40px; height: 20px;" type="text"/>	To eat with	F) 
7)	<input style="width: 40px; height: 20px;" type="text"/>	To hold your pencils	G) 
8)	<input style="width: 40px; height: 20px;" type="text"/>	To tell cars when to stop and go	H) 
9)	<input style="width: 40px; height: 20px;" type="text"/>	For birds to live in	I) 
10)	<input style="width: 40px; height: 20px;" type="text"/>	To write on	J) 

Object – Different Types of Chairs

Objects are made for different purposes. Check out these examples:

- A chair used in school is different than a chair used at home
- Rainboots are different than running shoes
- A gym floor is different than a classroom floor

Question Answer the questions below

1) Circle above the chairs where they would be used.

Home School

Home School



2) Circle the materials the chairs are made of?

Plastic

Fabric

Metal

Plastic

Fabric

Metal

Wood

Stone

Rubber

Wood

Stone

Rubber

3) Use your senses to describe the chairs below.

Hard

Soft

Comfortable

Hard

Soft

Uncomfortable

Big

Small

Supportive

Big

Small

Supportive

4) What are the benefits of both chairs?

Object – Different Types of Shoes

Questions

Answer the questions below

1) Circle above both pairs of shoes which environment they would be used

Dry

Wet

Dry



2) Circle the materials shoes are made of?

Plastic

Fabric

Metal

Plastic

Fabric

Metal

Wood

Stone

Rubber

Wood

Stone

Rubber

3) Use your senses to describe the shoes below.

Hard

Soft

Comfortable

Hard

Soft

Big

Small

Uncomfortable

Big

Small

Uncomfortable

Shiny

Heavy

Light

Shiny

Heavy


Light

4) When would you use both pairs of shoes?

Purpose of Objects

Questions

What is the purpose of the objects below?

Draw a picture of a bed	1) What is the purpose of a bed?
	_____ _____
	2) What are good building materials for a bed?
	Yes _____ and you drew using your senses
Draw a picture of a table	1) What is the purpose of a table?
	_____ _____
	2) What are good building materials for a table?
	3) Describe the table you drew using your senses

Questions

What is the purpose of the objects below?

Analyse The Chair Below

1) What is the purpose of the chair? Notice the wheels



2) What materials is the chair made of?

3) Describe the chair using your senses

Analyse The basketball

1) What is the purpose of the basketball?



2) What materials is the basketball made of?

3) Describe the basketball using your senses

Testing Objects

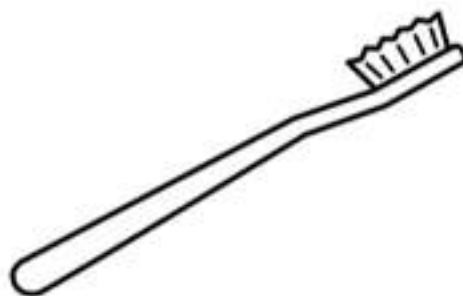
Research Question

What are we learning about?

When we have a job to do, we should choose the best object or tool for the job. Choosing the right tool will allow us to finish the job better. Today you will use three different tools for three different jobs.

Jobs

- 1) _____
- 2) Scrubbing _____
- 3) Mopping a _____



Materials

What materials do we need for the experiment?

- 1) A small mop
- 2) A small broom or handheld broom
- 3) A toothbrush
- 4) 3 different materials to make a mess (options below)
 - I. Washable paint for the sink
 - II. Shredded paper for the floor
 - III. Washable paint for the floor

Method

How do we complete the experiment?

- 1) Create one mess at a time
- 2) Try all three tools for each job/mess
- 3) Discuss which tool works the best
- 4) Fill in the backside of this page



Observations

What did you notice?

Which tool was best for which job?

Job	Tool
Mess in Sink	
Shredded paper on the Floor	
Mess on the Floor	

Results

Answer the questions below

1) Which tool is best for scrubbing a pan?

2) Which tool is best for picking up a wet mess?


3) Which tool is best for picking up a dry mess?

4) Draw each of the tools below

Broom	Mop	Toothbrush

Fasteners

Fasteners are used to hold things together. When an object is made, materials are put together. The fastener that is chosen to hold the materials depends on the purpose. For strong objects, nails and screws are chosen. For weaker objects, glue or tape could be used.

						
Glue	Nail	Paperclip	Tape	Button	Zipper	Rope

Matching

Draw a line from the object to the fastener used to make it



● Glue

● Screw



● Buttons



● Zipper



● Rope



● Tape



● Nail



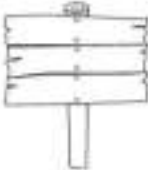



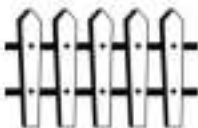



● Zipper

Fasteners - Matching

Matching

Write the letter from the example beside the material

Material		Example
1)	<input type="checkbox"/>	A) 
2)	Buttons <input type="checkbox"/>	B) 
3)	Rope <input type="checkbox"/>	C) 
4)	Nail <input type="checkbox"/>	
5)	Screw <input type="checkbox"/>	E) 
6)	Paperclip <input type="checkbox"/>	F) 
7)	Tape <input type="checkbox"/>	G) 
8)	Zipper <input type="checkbox"/>	H)  Stickers

Exit Cards

Cut Out Cut out the exit cards below and have students complete them at the end of class

Name: _____

Mark

Circle the fastener that is best used to hold the object together.

1) A jacket needs to open and close.

Nail Zipper

2) Wood is used to make a chair.

Tape Nail

3) A gift box needs to be closed but opened later.

Tape Screw

4) A shelf needs to be very strong and stay in place.

Screw Tape

Name: _____

Mark

Circle the fastener that is best used to hold the object together.

1) A jacket needs to open and close.

Nail Zipper

2) Wood is used to make a chair.

Tape Nail

3) A gift box needs to be closed but opened later.

Tape Screw

4) A shelf needs to be very strong and stay in place.

Screw Tape

Name: _____

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4) A shelf needs to be very strong and stay in place.

Screw Tape

Name: _____

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2) Wood is used to make a chair.

Tape Nail

3) A gift box needs to be closed but opened later.

Tape Screw

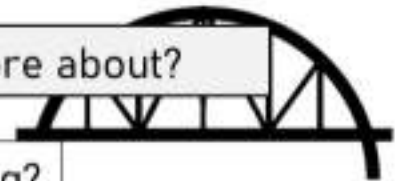
4) A shelf needs to be very strong and stay in place.

Screw Tape

Experiment - Triangles

Research Question

What are we trying to learn more about?



Are triangles the strongest shape to use when building?

Hypothesis

Will a rectangular object or triangular object be stronger?

Materials

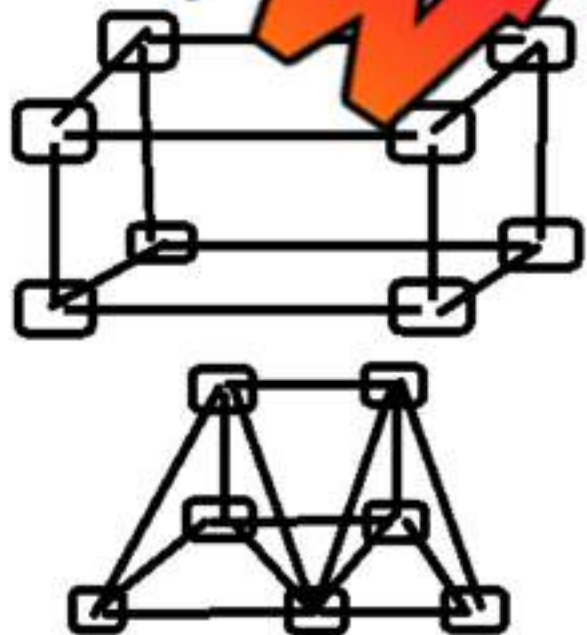
What you will need for this experiment

- Gummies – as fasteners
- Toothpicks
- Weight – books, wood blocks, anything that can be placed on the object

Method

How you will complete the experiment

1. Create a rectangular object using the toothpicks and gummies
2. Rest one weight on the object. Add weight and record how much the object supported
3. Create an object using triangles. You will need to keep adding triangles until the object can support a weight



Observations

What happened?

Which object held more?

Triangle

Rectangle

Results

Answer the questions below

1) Was your hypothesis correct or incorrect? Explain.

2) Which shape is the strongest?

Triangles

Rectangles

3) Draw diagrams of your objects

PREVIEW

Activities - Fasteners

Word Search

Find the words from the word bank



Tape	Glue	Button	Zipper	Nail
Screw	Rope	Staple	Cement	Paperclip



Word Scramble

Unscramble the words from the word bank



ZPIPRE		GULE	
CNEEMT		SLPATE	
TPAE		NALI	
PPLIARCEP		BOTTUN	
SCWER		REOP	

Building Objects

Questions

Which materials and fasteners would you use to build the objects?

1a) If you were making a poster with cut up drawings on the poster, which materials would you use?

Wood (Paper)

Metal

Fabric

Stone

b) Which fasteners would you use?

Nails

Zipper

Glue

Tape

Buttons

Staples

2a) If you were building a bridge across a stream of water, which materials would you use?

Wood

Metal

Fabric

Stone

b) Which fasteners would you use?

Nails

Zipper

Glue

Tape

Buttons

Screws

3a) If you were building a desk, what materials would you use?

Wood

Metal

Fabric

b) Which fasteners would you use?

Nails

Zipper

Rope

Tape

Buttons

Screws



4a) If you were making a small shelter in the woods that you were only using for one night, which materials would you use?

Wood

Metal

Fabric

Stone

b) Which fasteners would you use?

Nails

Zipper

Glue

Tape

Rope

Screws

Coding - Making Objects

Directions

Follow the code to design a hot air balloon

run program

cut out all the shapes

paste the balloon in the middle

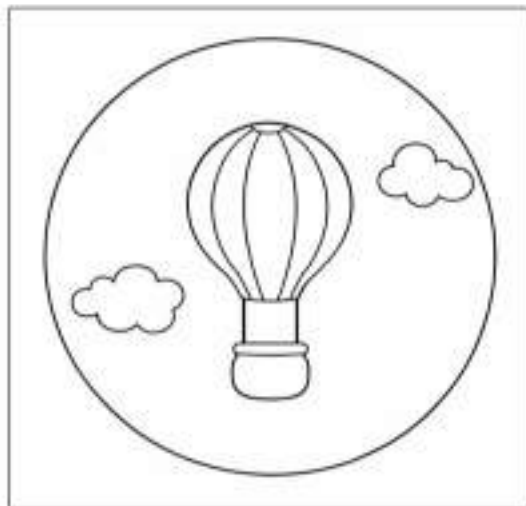
paste the stripes on the balloon

paste the ropes on the top of the page

paste the clouds around the balloon

paste the top to the balloon

paste the top of the balloon



PREVIEW



Balloon



Stripe



Stripe



Top



Ropes



Cloud

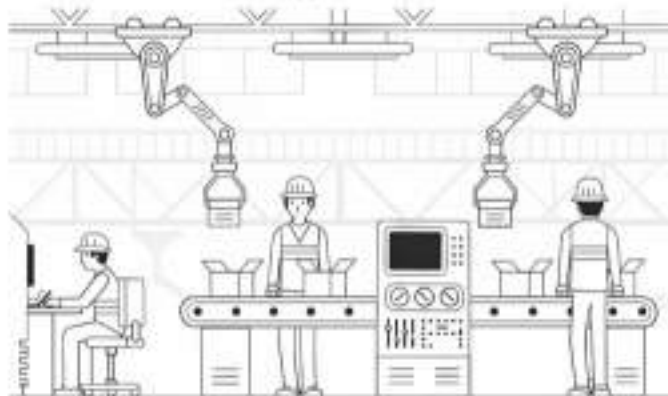


Cloud

Coding – Robot Assembly Lines

Today, code is used to program robots to do work. Assembly lines use robots to do boring work. Robots are good at:

- ✓ Working hard – they do not get tired
- ✓ Lifting heavy
- ✓ Working day and night
- ✓ Doing dangerous work



We still need people to fix the robots. When a robot breaks, a human fixes the robot. People also check the robots to make sure they are working.

Fill in the Blanks

Use the words to fill in the blanks

	bank
night	hurt
robots	hard



- 1) _____ is written so robots know what to do.
- 2) Robots are good at working _____.
- 3) Robots can work all day and all _____.
- 4) Robots don't get _____ so they can do dangerous work.
- 5) Robots can lift _____ things.
- 6) We need humans to fix _____.

Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class

Name: _____

Mark

Circle yes or no for each question.

1) Are robots programmed using code to work?	Yes
	No
2) Do robots get tired while working all day?	Yes
	No
3) Can robots do dangerous work safely?	Yes
	No
4) Do humans still need to fix robots sometimes?	Yes
	No

Name: _____

Mark

Circle yes or no for each question.

1) Are robots programmed using code to work?	Yes
	No
2) Do robots get tired while working all day?	Yes
	No
3) Can robots do dangerous work safely?	Yes
	No
4) Do humans still need to fix robots sometimes?	Yes
	No

Name: _____

Mark

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1) Are robots programmed using code to work?	Yes
	No
2) Do robots get tired while working all day?	Yes
	No
3) Can robots do dangerous work safely?	Yes
	No
4) Do humans still need to fix robots sometimes?	Yes
	No

Name: _____

Mark

Circle yes or no for each question.

1) Are robots programmed using code to work?	Yes
	No
2) Do robots get tired while working all day?	Yes
	No
3) Can robots do dangerous work safely?	Yes
	No
4) Do humans still need to fix robots sometimes?	Yes
	No

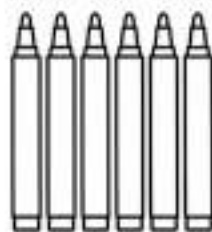
Activity – Making a Pencil Holder

You can build a pencil holder out of many different materials. Choose materials that you have to make a pencil holder that can stand on its own and hold pencils inside.

Materials

What do we need for our activity?

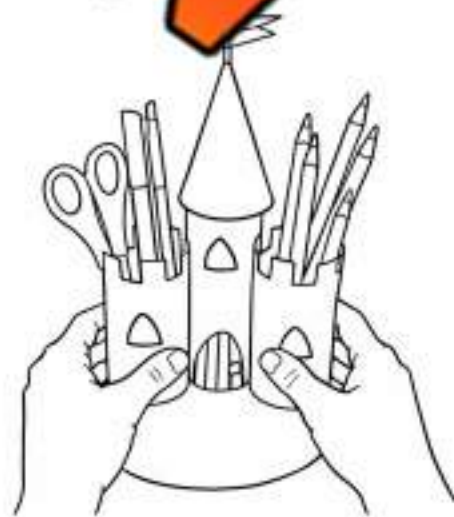
- ✓ Materials for the frame of the holder. The options below will work
 - ✓ Toilet paper rolls
 - ✓ Maraca shells
 - ✓ Plastic bottle – soda or juice
- ✓ Paper to cover the frame
- ✓ Glue, tape, or hot glue to secure paper to the frame
- ✓ Materials to decorate
 - ✓ Ribbons
 - ✓ Stickers
 - ✓ Markers, crayons, paint



Method

How do we complete the activity?

- 1) Bring materials in and let students see what they have to work with
- 2) Look up pictures of homemade pencil holders to help the planning phase
- 3) Make a plan on the back of this page of what materials you will use
- 4) Make a rough copy of the design you will use on the back of the page
- 5) Begin construction!



Plan

Plan your pencil holder below

1) What materials will you use to make your pencil holder?

Cardboard	Paper	Glass	Wood	Plastic	Other
-----------	-------	-------	------	---------	-------

2) Are the materials strong enough to hold pencils up?

3) Draw a design for your pencil holder.



PREVIEW

Where Materials Come From

Directions

Write the materials that are found in the pictures below

Cloth

Rubber

Stone

Metal

Wood

Paper



Cloth

Rubber

Stone

Metal

Wood

Plastic



Cloth

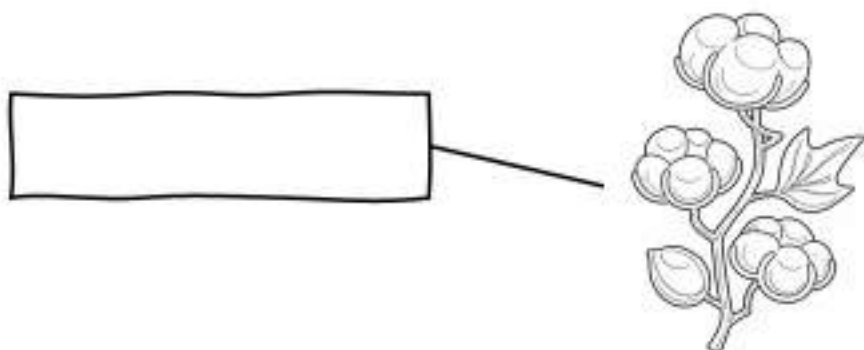
Rubber

Stone

Metal

Wood

Paper



Materials – Wood and Paper Products

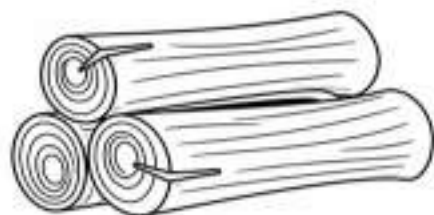
Directions

Fill in the flowchart below by drawing pictures

Trees



Logs



Firewood

Lumber

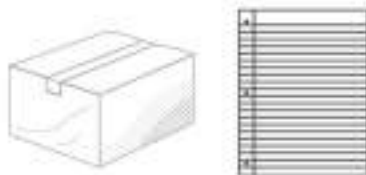
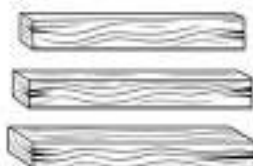
Pulp

Cardboard

Paper



PREVIEW



Recycling - Paper

Cycle

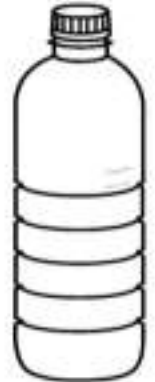
Copy and paste the recycling process of paper products



Materials - Plastic

Plastic is made of fossil fuels. Oil and natural gas are fossil fuels found in the ground. They are used to make the plastics we use everyday.

To make plastic, oil and natural gas are heated. The plastic made is formed into water bottles, food packaging, auto parts and medical tools. Plastic is hard to last. It takes the average plastic item between 10 to 1000 years to decompose. That is why it is best to recycle plastic when we are done with it. If we recycle it, the plastic can be used again.



Fill in the Blank. Write the missing word?

	Barrel	
Food	Oil	Recycle
Water Bottles	Natural Gas	Identified





- 1) Plastic is made from heating _____.
- 2) Plastic is also made from _____.
- 3) Natural gas and oil are found _____.
- 4) Plastic is used to make _____.
- 5) A lot of the _____ we buy is packaged in plastic.
- 6) Plastic lasts a long time, so we should _____ it.

Recycling - Plastics

Facts

How do you feel about the fact? Draw a happy or sad face

Facts		 
1)	10 million tons of plastics are dumped into our oceans every year.	
2)	Humans use 100 kilograms of plastic in their lifetimes.	
3)	There will be more plastic in the oceans than fish by 2050.	
4)	A clean-up organization pulled over 100 kilograms of plastic from the ocean.	
5)	If you eat fish, you are eating plastic.	
6)	When you recycle plastic, it is used to remake things. This keeps the plastic out of the oceans.	
7)	There are between 50 to 75 trillion pieces of plastic in the oceans.	
8)	Canada has joined the Zero Plastic Waste program. The program is hopeful to stop plastic waste.	

Professionals Working With Materials

Why Materials Matter: Learning about Jobs

Materials are all around us! They're in our homes, our schools, and the things we play with. Some people have jobs where they need to know a lot about materials. Let's explore a few!

- Carpenter: A carpenter is a person who builds things with wood, like tables and chairs. Carpenters need to know which woods are strong for making furniture and which woods are best for carving nice designs.
- Engineer: An engineer is a person who designs and builds things like bridges, cars, and even airplanes! They need to know about different materials to pick the best ones for their projects. For example, they need to know that steel is strong for building bridges and plastic is used for making parts of a car.
- Designer: Designers create things like clothes, websites, and even whole rooms! If they're designing clothes, they need to know about different fabrics: like cotton is good for making t-shirts and silk can make a pretty dress.
- Knowledge Keeper or Elder: Knowledge Keepers or Elders are very respected in many Indigenous cultures. They know a lot about the natural materials from the Earth, like stone, wood, and animal skins. They use this knowledge to teach others about making tools, clothing, and shelters.



Question Which job would you want that works with materials? Explain.

Yes/No Write the answer yes or no?

1) Do engineers work with materials?	Yes	No
2) Do carpenters work with materials?	Yes	No
3) Do engineers build structures like bridges?	Yes	No
4) Do designers make clothes?	Yes	No
5) Do elders keep their knowledge to themselves?	Yes	No

Colour Colour the professionals working with materials.



Exit Cards

Cut Out

Cut out the exit cards below and have students complete them at the end of class

Name: _____

Mark

Draw a line from each word to its correct meaning.

- | | |
|------------------------------------|---|
| <input type="checkbox"/> Engineer | <input type="checkbox"/> Builds things using wood, like tables and chairs |
| <input type="checkbox"/> Carpenter | <input type="checkbox"/> Designs and builds things like bridges and cars |
| <input type="checkbox"/> Elder | <input type="checkbox"/> Creates clothes and chooses fabrics for projects |
| <input type="checkbox"/> Designer | <input type="checkbox"/> Teaches others using natural materials from the land |

Name: _____

Mark

Draw a line from each word to its correct meaning.

- | | |
|------------------------------------|---|
| <input type="checkbox"/> Engineer | <input type="checkbox"/> Builds things using wood, like tables and chairs |
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| <input type="checkbox"/> Designer | <input type="checkbox"/> Teaches others using natural materials from the land |

How Indigenous Groups Use Materials

Respect for Land and Materials

First Nations, Métis, and Inuit have special ways to use materials from the land. They make things like clothing, tools, and homes using what nature gives them. Let's see how they do it:



- Traditional Knowledge: They use the knowledge passed down from their ancestors. Elders tell the children how to use materials properly. The same knowledge has been passed down for thousands of years!
- Time of Year: They know that different times of the year are good for collecting different materials. For example, in the fall, they might gather birch bark because it peels off the trees easily.
- Availability: They look around to see what materials are available. If they live in a forest, they might use a lot of wood. If they live near a river, they might use a lot of clay or stone.
- Taking Only What is Needed: They respect nature and only take what they need. For example, if they need birch bark for a basket, they only take enough bark for that one basket.
- Respect for the Land: They thank the land for its gifts. This can be done by saying a prayer or doing a ceremony. They always make sure to leave the land as they found it, so it can be used for many years.



Question

Do the Indigenous waste natural materials? Explain.

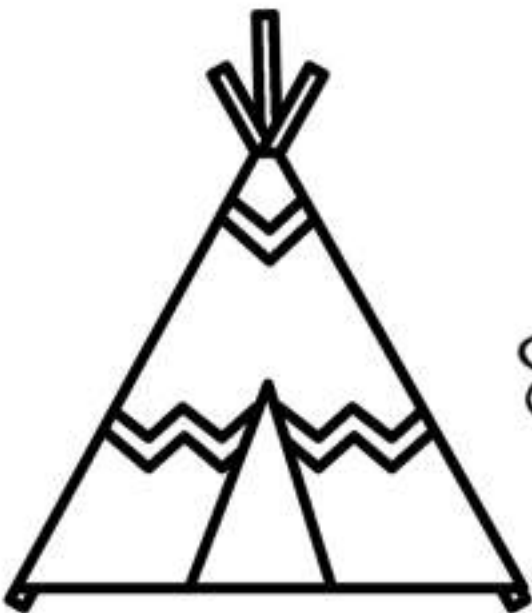
Yes/No

swipe yes or no?

1) Do the Indigenous waste natural materials?	Yes	No
2) Do the Indigenous take what they need from the land?	Yes	No
3) Are the same materials available everywhere?	Yes	No
4) Does birch bark peel easier in the spring?	Yes	No
5) Do elders share information with kids?	Yes	No

Colour

Colour the Indigenous objects below.



Dene Birchbark Baskets

Dene Birchbark Baskets

The Dene people, who are a First Nation in Canada, are known for making beautiful baskets using birchbark. Here is how they do it:

- 1) **Find a Tree:** The Dene look for a birch tree. Its bark is strong and can bend.
- 2) **Get the Bark:** They peel the bark off the tree. They are careful and take only what they need.
- 3) **Prepare Bark:** They clean the bark and let it dry. If needed, they dip it in water to make it more bendy.
- 4) **Cut the Bark:** They cut the bark into shapes for the basket. It can be round or square.
- 5) **Join the Basket:** They use roots or bark strips to sew the bark pieces together.
- 6) **Decorate the Basket:** At the end, they decorate the baskets. They might carve pictures into the bark or use natural dyes to dye it.

Think

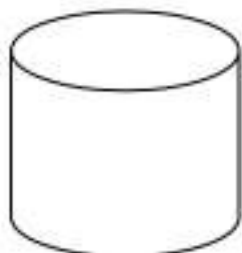
Number the steps below in order from 1 to 6.

Answer	Steps
	The Dene cut the bark into shapes for the basket.
	They use roots or bark strips to sew the bark pieces together.
	They clean the bark and let it dry.
	The Dene look for a birch tree.
	They peel the bark off the tree.
	They decorate the baskets.



Colour

Colour the birchbark baskets below.

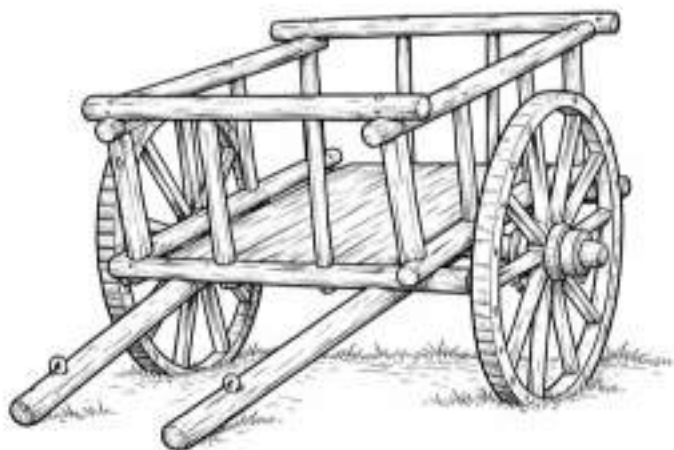


Red River Carts

Red River Carts

Once upon a time, people of the Métis community in Canada made something really useful called Red River carts.

These carts were special because they were made from natural materials!



Making the Cart

The Métis people used wood to build these carts. They used strong wood from oak trees to make the frame and the wheels of the carts. The big wheels were often covered with buffalo hide to make them stronger. Even though they were strong, they made a loud squeaking noise when they moved!

Using the Cart

Red River carts were very important for moving things around. They were like big, strong shopping carts that could carry lots of things! People used them to carry food, furs, and even their families over long distances.

Why they were Important

These carts were so important because they were very strong and could travel on rough paths. They could even cross rivers! This made it easier for people to travel and trade things with others.

Question

What were Red River Carts? Who made them?

Yes/No

Answer yes or no?

1) Could these carts be used on a dirt road?	Yes	No
2) Were the wheels made of animal skins?	Yes	No
3) Could the carts carry a heavy load?	Yes	No
4) Did the carts make a lot of noise?	Yes	No
5) Did they use only use natural materials?	Yes	No

Draw

Draw your own Red River Cart Below



Activity – Making a Canoe

Objective

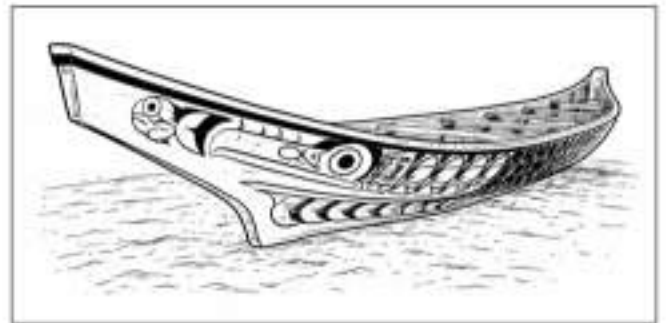
What are we learning more about?

Students will learn about how canoes were made by Indigenous groups in Canada out of natural materials.

Materials

What do we need?

- ✓ Cardstock paper
- ✓ Scissors
- ✓ Markers, colored pencils or crayons
- ✓ Glue or tape
- ✓ Canoe template



Method

How do we make the canoe?

- 1) Print the template on thick paper or cardstock.
- 2) Have the students colour the canoe (both sides). Encourage them to look at Indigenous art and designs for inspiration, and be creative with their own ideas.
- 3) Instruct the students to carefully cut out the canoe template along the lines.
- 4) Have the students fold the paper along the folding line, creating the shape of the canoe.
- 5) Paste or tape the bottom edges of the canoe together (do not paste the top of the canoe together). This should allow the canoe to hold its shape.
- 6) Cut the seats out (two rectangular pieces). They should be coloured brown.
- 7) Use tape or glue to secure the seats to both sides of the inside of the canoe. The seats will help hold the canoe together.
- 8) Let the canoe dry before displaying it.

Name: _____


PREVIEW




Unit Test – Materials, Objects, Structures

Matching


Draw a line from the thing made to the material it is made of




- Wood




- Metal




- Plastic



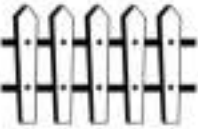
- Fabric




- Glass




- Wood




- Metal



- Plastic



- Fabric



- Glass

Directions


Circle whether the object is made of 1 or more than 1 material



1	More Than 1
---	-------------



1	More Than 1
---	-------------



1	More Than 1
---	-------------

Absorb or Repel?

Will the object absorb or repel water? Circle your answer.



Absorb Repel



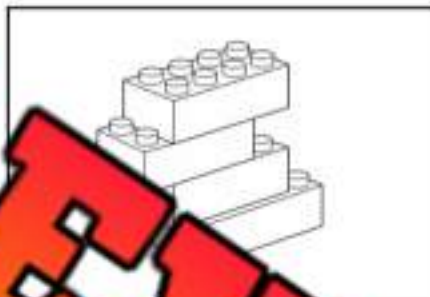
Absorb Repel



Absorb Repel



Absorb Repel



Absorb



Absorb Repel

Questions

What is the purpose of the object below?

Analyse The basketball



1) What is the purpose of the basketball?

2) What materials is the basketball made of?

3) Describe the basketball using your senses

Questions Which materials and fasteners would you use to build the structure?

1) If you were making a large bridge that went across a wide river, which materials would you use?

Wood	Metal	Fabric	Stone
------	-------	--------	-------

2) Why would you use that material?

3) Which fasteners would you use?

Nails	Glue	Tape	Buttons	Screws
-------	------	------	---------	--------

Think

Are they transparent? Are they reflective?

Objects	Transparent - Yes or No?	Reflective - Yes or No?
Paper		
Plastic Wrap		
Cardboard		
Aluminum Foil		
Glass		
Wood		
Mirror		