

Preview - Information



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- ✓ A selection of Ready-To-Use Google Slides Lessons.
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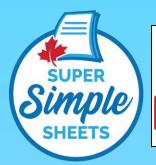




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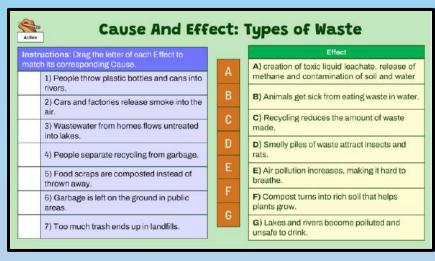
Alberta Science Curriculum Matter and Waste Unit - Grade 4

3-Part Lesson Format

Part 1 - Minds On!

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





Part 2 - Action!

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

Part 3 - Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!

Consolidation - 3-2-1 Reflection Activity

After learning about waste and how it can be solid, liquid, or gas, reflect on the following:

- 3 things you learned about solid, liquid, and gas waste.
- 2 things you found interesting about recycling or reusing waste.
- 1 question you still have about how waste management helps protect our planet.

Write your responses in your notebook or discuss with a partner. If short on time, share your answers as a whole-class activity.







Alberta Science Curriculum Matter and Waste Unit - Grade 4





Alberta Science Curriculum Matter and Waste Unit - Grade 4

		ning Abo				
		Drag and drop items from the	ne word bank to complet	te the short paragraph	below.	
			Incinerating Waste			
	Incineration is the	process of burning		to reduce th	e amount of trash	
	sent to) woods is by	to reduce (r	le amount of trash	
	can be used to he	Ip make electricity.	i waste is burned, it	creates	that	
	It also produces _		which still poor	loto be de la		
	incinerators clean	the gases some		is to be placed in a	a landfill. Even though	W.((()
	In aire and	the gases, some		can still escap	o into the all.	ĕ
	incineration uses a	a lot of	, which o	can affect the envi	ronment.	3
us a Flui	Word Bank:	ash	garbage bags	landfills	air pollution	Į4
Handling Flui		energy	waste	leftovers	heatenergy	
Write the correct			·		near energy	
Question	A	Who created the	Where the product			
1) What does a WHMIS symbol tell	How to stay safe around a product	Who created the symbol	was made			
1) What does a Writing syou?		The liquid can catch	The liquid freezes quickly			
2) What does the flammable	The liquid is safe to heat	fire easily				
symbol mean?		Makes items smell	Changes colour whe	n		
3) What does a corrosive fluid do?	materials	strong	They can make			
1.530	They will stop working	They become too	dangerous gases			
4) Why should you never mix cleaners?	They will stop working		C. malaceas			
5) Which item should you wear for	A winter hat	Safety goggles	Sunglasses			
5) Which item should you many protection?		tiplo	A product that is lo	ud		
6) What does the toxic symbol	A product that can make you very sick	A product that is sticky	Аргония			
warn you about?	make you voly					
	Waste safely or ha Handles E-Waste Safe	ag and drop each action andling e-waste unsafel Handles E-Waste U	Bring to a This earbuild drawer of the second seco	ging a broken lapto store that accepts returns Towing broken is into the regular trash	Donating a working tablet to someone who needs it Taking an old phone to an e-waste recycling center Tossing a cracked TV into a garbage bin	7





Workbook Preview



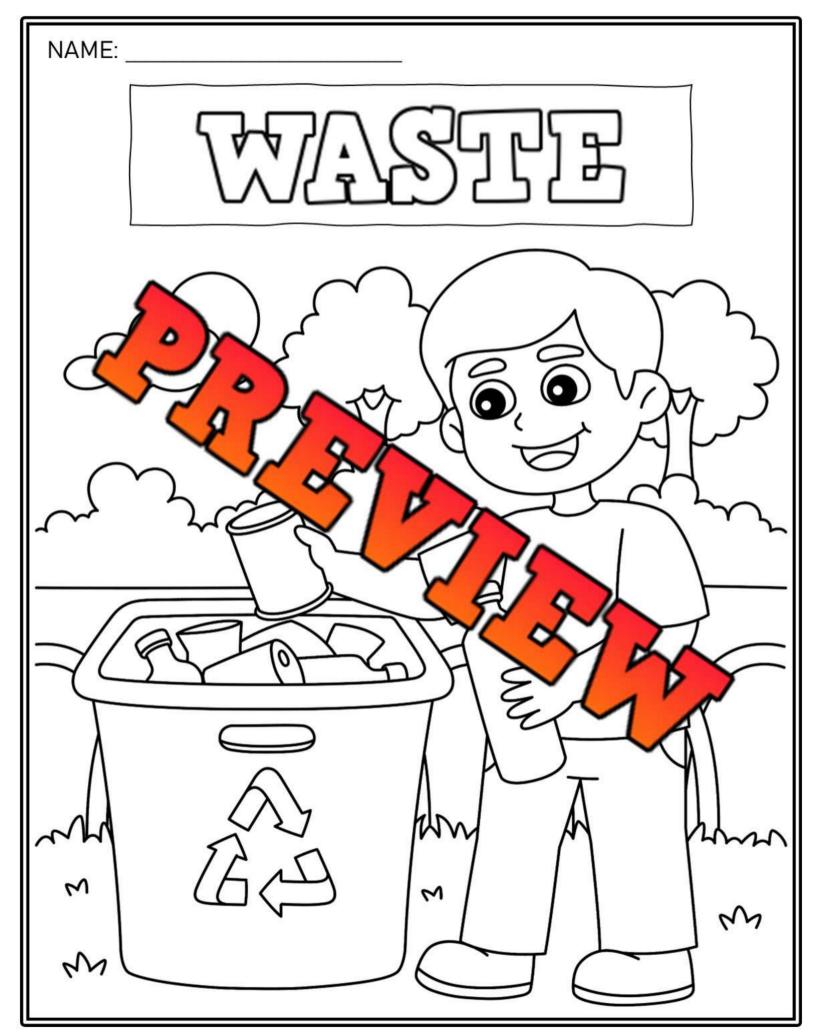


Grade 4 - Science Unit

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

Guiding Question: How can materials be managed safely?

	Learning Outcome - Students investigate the management of waste and dangerous materials and describe environmental impacts.	Pages
M.1	Methods of waste management that can negatively impact the environment include using landfills and burning.	9-17, 19-22,
1-11.2	Preview of 80 pages fron	
	this product that contain	S
M.2	139 pages total.	67-75, 102
M.3	Waste materials may be solids, liquids, or gases.	6-8, 92-97
	Dangerous materials include natural and processed materials that can be harmful to the health of individuals.	
M.4	Symbols are used to identify dangerous materials.	76-88
	Hazard symbols are used to identify dangerous materials, including those that are explosive flammable corrosive poisonous	
Compu	er Science:	
CS.1	Students examine and apply design processes to meet needs.	18, 23-25, 53-55, 89-91



Curriculum Connection
M.3

What is Waste?

What is Waste?

Waste is anything that we don't need or want anymore. We call it trash, rubbish, or garbage. But did you know waste isn't just old food or crumpled paper? Waste can also be a liquid or as. Let's learn more!



Soli e

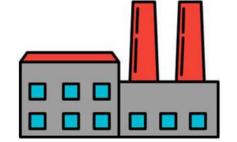
When we thin the ce, then picture solid waste. Solid waste is stuff we can touch and second to the cold toys, food scraps, or a broken pencil. This is the kind of waste to the in your ge bin at home. Sometimes, if we recycle, solid waste like place that the condition be turned into something new!

Liquid Waste

Next, there's liquid waste. This is waste in the of the led soda or used cooking oil are examples of liquid waste. But o compare quid waste is actually from our bathrooms. When we flush the toiled drawater is waste too. It needs to be cleaned at a water treatment of the liquid waste back into the environment.

Gas Waste

Lastly, there's gas waste. This one's tricky because we can't see or touch it. But it's very real! When we burn fuels like gas, oil, or coal, it creates waste



gases. These gases can pollute our air and harm our environment. Even burping cows create a gas waste called methane!

Exit Cards

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

Name: Which type of waste is described. Solid 1. Old toys and food scraps. Gas Solid 2. Spill Liquid quid 3. Smoke from coal. 4. Used cooking oil. 5. Burping cows release methane. Solid

1. Old toys and food	Solid
scraps.	Gas
2 C-31-44-	Solid
2. Spilled soda.	Liquid
3. Smoke from burning	Liquid
coal.	Gas
/ Hood cooking ail	Gas
4. Used cooking oil.	Liquid
o. B cows release	Gas
me	Solid

Name:

Name: _____ Which type of waste is described.

1. Old toys and food	Solid
scraps.	Gas
2 Chilled code	Solid
2. Spilled soda.	Liquid
3. Smoke from burning	Liquid
coal.	Gas
/ Used cooking oil	Gas
4. Used cooking oil.	Liquid
5. Burping cows release	Gas
methane.	Solid

Which ste i	ibed
1. Old toys and foo scraps.	Gas
2 Chillad code	Solid
2. Spilled soda.	Liquid
3. Smoke from burning	Liquid
coal.	Gas
/ Head southernell	Gas
4. Used cooking oil.	Liquid
5. Burping cows release	Gas
methane.	Solid

Composting

What is Compost?

Compost is decomposed organic material. This means that compost is broken down

dead stuff! When something dies, like a plant, it will break down slowly into soil. The soil is actually compost, which is no wrich soil.



Deco

Decomplers are fundi, and other living organisms that eat dead plants and animals. Of down caying matter so that it turns into soil to be used by plants.

When they break as lead and mineral salts that go into the soil of plants to grow. Examples of decompositions are molds, fungi, and worms that reuse and recompositions that were formerly living.

Decomposers are alive. They get their energy from the nutrients in dead matter.

Worms take in food through their mouths and



d animals, they release nutrients

soil rich in nutrients for

pass a 'cast' through their rear end. The cast is very valuable fertilizer for the soil.

What to Compost

As a general rule, you can compost things that were once growing but are now dead. Some examples include fruits, vegetables, paper, coffee, tea, and eggshells. You shouldn't compost cheese, medicines, or glass.

When you compost the right things, decomposers will begin to break down the dead matter, so it turns into good soil!

Questions

Answer the questions below using evidence from the text

1) What are decomposers? How do they help create compost?

2) What compost and what shouldn't you compost?

Making Connections

b does

ding remind you of?

Word Scramble

Unscramble the words below using the word bank

Compost	Soil	Worms	Bacteria	Fungi	Decay	Break	Down
IETC <i>A</i>	ARAB			SWI	MR0		
DAG	CEY		*	EKA	ARB		
LO	IS			COTF	PSM0		
WN	DO			NIF	GU		_

Curriculum Connection M.1

Not all organic material can be composted. Check out the infographic below to learn more about the organic material that can be composted.



Making Connections

Share your expe

s wit

ing below

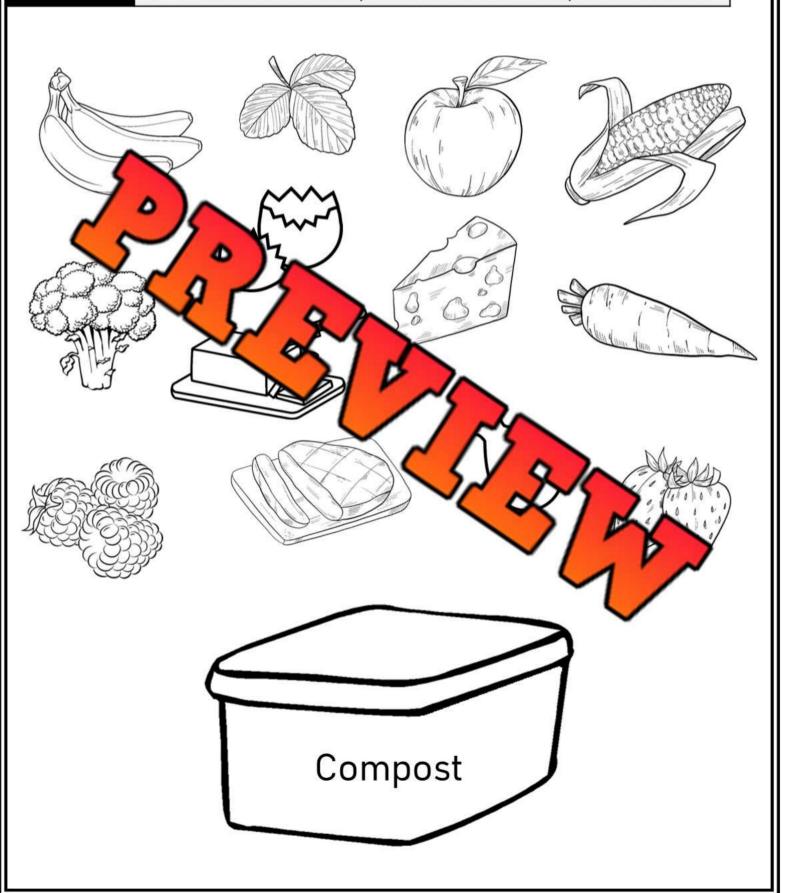
1) Have you ever used a composter? If so, what do you co

2) What kinds of things can you not compost? Why do you think you can't compost those things?

Curriculum Connection

Directions

- 1) 2) Colour the pictures that can be composted
- Draw a line from the pictures that can be composted to the bin



Curriculum Connection M.1

Pop Bottle Composter

Background

What is this experiment all about?

How is compost made? How long does it take for organic material to turn into compost? These are the questions we will answer after our experiment is complete!

Materials

will you need for this experiment?

- Em_2-litre
- Soil
- Leaves, grass, new on fruits or vegetables
- Anything else you we

Method

How you will complete the

men

- 1. Cut the top off the 2-litre soda bottle.
- 2. Remove the label so you can see inside the bottom
- 3. Start with a layer of soil on the bottom
- 4. Add a layer of compostable material
- Continue this process by alternating soil and organic material until the bottle is nearly full
- Add water to the bottle to start the composting. The water will help rot the organic material
- 7. Put the composter in a place where it won't tip over and where it will get enough sun. The sunlight will also help rot the organic material
- 8. Monitor the progress of the composter by checking it once a week. As an option, you could take a picture each week to record what is happening

Types of Packaging

Different Types of Packaging Materials

Almost everything we buy comes in a package. Food, toys, electronics and more are usually wrapped in some form of package that protects the product inside. The problem is that all packaging is waste. This is because we don't buy the product for the packaging. The packaging is extra and unwanted. Some types of packaging are better for the environment than others. Check out the list below.



	Plastic
Advant	astic has a low cost, is durable, lasts a long time, is light-weight, and nused in many different ways (shrink wrap, hard plastic covering,
Disadvantages	with such plastic pollution. Some plastics can leak
Advantages	Cardboard ats a lo so obtweight for people to carry. Businesses can punt the on pard. Cardboard can be easily recycled. Cardboard is recycled.
Disadvantages	Cardboard isn't as durable as place of wood be damaged by water (rain). Cardboard does not prote a protection of the protection of the cause it can be damaged (deformed) easily.
	Aluminum
Advantages	Aluminum is 100 percent recyclable. It can be republicated back in a store in as little as two months. Aluminum at the strecycle rate at 68 percent. It is also inexpensive.
Disadvantages	Aluminum is a non-renewable resource, which means when we run out of aluminum, it is gone forever. To make aluminum, a lot of energy is burned. Some research suggests that aluminum could be bad for our health.
	Glass
Advantages	Glass keeps the contents fresh. No chemicals will leech into the food or drinks. Glass can store contents for a long time. Glass is 100 percent recyclable. They can be washed and reused as well.
Disadvantages	Glass costs a lot, which means the product costs more. It can be broken easily when being moved around. If glass is not recycled, it can take up to 1 million years to fully decompose.

* 1		
Name:		
INGILIC.		

Questions Use information from the text to support your answer

1) What is packaging? What are the four main types of packaging?	

2) Why is choosing packaging materials an important choice? Explain some of the advantages and disadvantages in your answer.





1. Plastic is biodegradable and will break down naturally	True	False
2. Some plastics can be harmful to eat and drink out of	True	False
3. Cardboard is biodegradable and will break down naturally	True	False
4. Glass is biodegradable and better for the environment	True	False
5. All packaging needs to be recycled, especially glass, plastic, aluminum	True	False

Curriculum Connection CS.1

STEM Assignment - Product Packing Machine

Today, companies are trying to make everything as automated as possible. This means they want robots to do as much of the work as they can.

Your task is to create a robot that can measure the size and weight of a product and then package it accordingly.

For example

IF the proof thas a volume less than 100 cm³ THEN page product in a bag

IF the last me between 100 cm³ and 200 cm³ THEN lage the lin a small box



IF/THEN

Write r vo

If the product has a volum

an

THEN

If the product has a volume between 100 cm

THEN

If the product has a volume between 200 cm³ and 400 cm³

THEN

If the product has a volume between 400 cm³ and 800 cm³

THEN

If the product has a volume greater than 800 cm³

THEN

Curriculum Connection CS.1

Draw your packaging machine. Make sure you have:

- ✓ A place to put the product
- ✓ Where the packaging types will be stored (box, bag, etc.)
- ✓ A screen to tell you what is happening
- ✓ A start button
- ✓ A place for the package to go





Questions

Answer the questions about your machine below

1) How does your packaging machine work?

2) H e dr machin pack use code? Write one example line of code for the

3) How much does it cost to make you, machin

- 4) Who will you sell your machine to?
- 5) How much will you sell it for?
- 6) If you sell 5 machines today, how much money will you make? Remember to subtract how much the machine costs to make!

Curriculum Connection

Decreasing Waste - The Three R's

Decreasing Waste

We all know that waste is not good for our environment. When waste ends up in our environment, it is pollution that affects our air quality as well as our ecosystems. Plants and animals suffer when we produce too much waste. That is why we all need to work together to decrease the amount of waste we produce.

The Three

To keep th ple, Canadians and people around the world have been learning about 1b educe, reuse, recycle. By following the three R's, we can decr ste we produce.

Reduce

We can reduce less. The less we buy, the less waste we will nake sure we use them and try to choose have. When we do packages that are biode or re For example, buying plastic water errible for the environment. bottles and then throwing

We should reduce the an e purchase by buying a reusable water bottle. We can also to ing how many things we are buying. Sometimes we buy things we den't reall n we don't use them. Most of the time, these things end up as was

Reuse

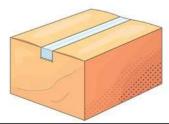
Reusing items instead of throwing them away is another way to reduce waste. When we buy new items, we throw out our older stuff, which adds to the landfills and causes pollution. You should consider reusing or

of a page or using scrap paper for less important things.

Reduce items before buying new. For example, you can reuse paper by writing on the back

Recycle

Recycling is making new products out of already used materials that would have been otherwise thrown away. When we recycle materials, they are sent to factories



to be sorted and eventually reused for new products. The recycled materials like plastic, cardboard, and metal are made into new products. This means those plastics, carboards, and metals never end up as waste, since they are always being used.

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True

False

5. We don't need to worry about which type of package a product comes in

Activity - Build a Recycled Bird Feeder

Objective

What are we learning more about?

To learn about recycling, repurposing, and helping animals.

Materials

What do we need for our activity?

- 1) An stic bottle
- 2) ons.
- 3) or y
- 4) Biruseed
- 5) Craft page of intbrug stional).

Mahared Smith Livry

Method

How do we cold be exp

- 1) Clean the plastic bottle and rem \(\sqrt{labe}\)
- 2) Ask an adult to help make two pairs of hold poposition other halfway up the bottle, large enough for the spoons to the
- 3) Push the spoons through the holes so that they 'X' in the bottle. The spoon handles will act as perches for the birds, at the birdseed.
- 4) Make two small holes near the top of the bottle and thread the song through them. This will be used to hang the bird feeder.
- 5) Fill the bottle with birdseed until the seeds are level with the spoons.
- 6) Screw the cap back onto the bottle.
- If you want, you can paint and decorate the outside of the bottle with craft paint.
- 8) Find a tree in your backyard or a park and hang the bird feeder on a branch.
- 9) Watch and see what kinds of birds come to visit your bird feeder!

Beyond the Three R's

Beyond the Three R's

Waste is a big problem and the three R's are a great start to solving it. But there is more we can do to stop how much we are wasting. We should consider the new 7 R's! Calgary is the world's cleanest city, and they do it by having their residents follow the 7 R's. Beyond the three r's, we can add 4 more – Refuse, Repair, Regift, and Recover.

Refuse

The terr all things left over after use. It is similar to waste, but waste mear the left bat cannot be recycled. When we buy things, we should conside the pack see that will be leftover after we use the item. We should ask questions

- o Is this product able selse with less packaging?
- o Do I need this pro-
- Is this product recycle

Repair

We quite often buy new things becaute old the have stopped working. To cut down on waste, we should consider repairing what we already the example, our old shoes can have new soles put them to allow them to last longer. We could also ge machines fixed before buying new ones.

Regift

If we have items that we don't like anymore, we shouldn't just throw the first in the trash. Instead, we can regift them to someone who will appreciate them. If you post these items for free, you will quite often find someone who will love them. This means the item did not end up in the trash and it is helping someone else.

Recover or Rot (Compost)

We need to remember that organic waste is helpful for our environment. We should never throw away food scraps, glass clippings and other organic waste because we can compost it. Composting organic waste means the waste becomes nutrient rich soil. Allowing organic waste to rot in composters is good for our environment.



1. Letting organic material rot is good for our environment	True	False
2. Throwing out old food is okay because it is old	True	False
3. We can reduce waste by regifting or reselling our old stuff	True	False
4. Refuse is only the leftover waste that can't be recycled	True	False
5. You can repair your old things so you don't have to throw them away	True	False

Exit Cards

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

Name: Which type of waste is described. Regift 1) Ben gives his old shoes aw Repair Refuse 2) Maya was Repair 3) Liam Posts online. 4) Ava composts fru peels at home. 5) Emma says no to extra packaging.

1) Ben gives his old	Regift
shoes away.	Repair
2) Maya fixes her broken	Refuse
washing machine.	Repair
3) Liam posts free toys	Rot
online.	Regift
4) Ava composts fruit	Rot
eels at home.	Refuse
says no to extra	Rot
pag	Refuse

Name:

Which type of waste is described. Regift 1) Ben gives his old shoes away. Repair Refuse 2) Maya fixes her broken washing machine. Repair Rot 3) Liam posts free toys online. Regift Rot 4) Ava composts fruit peels at home. Refuse Rot 5) Emma says no to extra

Name:

packaging.

Which ty	iber
1) Ben gives his ol shoes away.	epair
2) Maya fixes her broken washing machine.	Refuse
	Repair
3) Liam posts free toys	Rot
online.	Regift
4) Ava composts fruit	Rot
peels at home.	Refuse
5) Emma says no to extra	Rot
packaging.	Refuse

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Refuse

Reselling - Online Marketplace Assignment

Objective

What are we learning more about?

Have you ever heard the saying, "one person's trash is another person's treasure?" Well, it is true! We shouldn't throw our old things away. Instead, we can post these things for free or even for sale by using an online marketplace.

Instruction dowe complete the activity?

- 2) Discuss with students sep to also help other people.
- Once they have chosen their item, have the eate an online marketplace post. They should de:
 - A title for their listing (e.g., "Gently of Bicycle for Sale")
 - A description of the item, including its condition, color, size, and any other important details.
 - A reason why someone else might want or need this item.
 - A 'pretend' price or, if they choose to give it away, they can list it as 'Free'.
 - They can also draw a picture of their item to go with their listing.
- 4) Once they've created their listings, have the students present their items and explain why someone else might want or need them.
- 5) Discuss how the activity can be applied in real life and the benefits of reusing, recycling, and regifting.







Plan

Plan your sale item posting

- 1) What will the title of your listing be? Example: "Gently Used Bicycle for Sale"
- 2) A description of the item, including its condition, colour, size, and any other important details





4) What is the price for it? 5) Which city are you in?

6) Draw th

ect below.

Curriculum Connection M.1

Role-Play: The 7 Rs

Objective

What are we learning about?

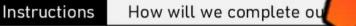
Students will show how the 7 Rs reduce waste in daily life. By acting out short scenes, they will choose actions that protect the environment and explain why their choices matter.

Materials

e need for our activity?

uations)

- Scenario con (provided)
- Props or costum
- Timer or stopwatch



- 1) Divide the class into small groups of 4 to 5
- Provide each group with a scenario card that outline the topic being studied.
- Give out roles to each student in the group, assigning them a ch within the scenario, or let them decide and take roles.
- 4) If available, distribute props or costumes that may help students embody their roles more effectively.

ic si

elated to

- 5) Set the timer to allocate a specific amount of time for the groups to discuss and act out their scenarios.
- 6) Allow each group to present their role-play to the class.
- 7) After all groups have presented, initiate a class discussion to reflect on the different approaches and outcomes observed during the role-plays.
- Distribute reflection sheets for students to express what they learned and felt during the activity.

Name:

Curriculum Connection M.1

Criteria

Use the criteria below to complete the activity.

Criteria	Description	
Show the R	Your scene clearly shows one of the 7 Rs (reduce, reuse, recycle, refuse, rot, repair, regift). Say or show why it is the best choice.	
Voice	Speak clearly and loud enough for all to hear. Use a voice that fits your character and the situation.	
Actions & Use simple, safe props and body movements to make the R easy to see and Props lerstand.		
Stay Scer ver character from start to finish. Do not break role until the		
Teamwork	on time to other. Start and finish on time	
Scenario Cards Cut of the ics be		
Scenario	De n	

Scenario Cards

Scenario		De n
1	Reduce – Class Party Planner	The class plans a party. Two ces: so drinks and tiny snack bags, or big pitchers and compare how much packaging each packaging, lower cost, fewer bins to empty. Complanning for allergies, someone must portion sock pecide which choice reduces waste the most and why.
2	The art club needs containers and trays. Instead of buying new students collect jars, yoghurt tubs, and boxes from home. They and peel off labels. Pros: saves money, keeps items out of the sturdy containers last. Cons: sticky glue, time to clean, some lied don't fit or aren't safe for paint water. Choose which items can safely reused.	

Scenario Cards

Cut out the topics below.

Recycle – 3 Sports Day Stations

After Sports Day, bins fill up with cans, paper programs, and food wrappers. Students run "recycling stations" and sort items using the town rules. **Pros**: metal, paper, and some plastics get made into new products. **Cons**: wrong items (like greasy pizza boxes) can spoil a whole bin; containers must be rinsed; not every plastic is accepted. Teams practise reading bin signs and fixing mistakes.

4 and Fair Ch

n a field trip, a café offers plastic straws and lots of napkins. At the rendors hand out free tiny toys. Students practise polite ways "No thanks, I don't need that." **Pros:** less clutter, less waste, a manage to businesses. **Cons:** may feel awkward, sometimes reusal to be a savailable. Role-play refusing kindly and bosin the lons.

Rot (Compost) School Garden Loop

The class as a second of the school garden. They sort banana peets, apply a leave of tea bags into the green bin; foil and wrapper a garba so kes rich soil, less smell in garbage, fewer landfill trips as: nee wright mix of greens and browns, can attract fruit a lids a power land dairy are not allowed. Plan how to kee how to allow the land of the land o

Repair -6 Backpack Rescue

A student's favourite backpack has a broken zerop. The group checks a repair kit, watches a quice was and decides what they can fix. **Pros**: keeps a loved item a resources and money. **Cons**: takes time and tools, some repairs leed an adult or a shop, a fix might not last forever. Choose repair steps and when replacement is the better choice.

Regift - Winter Warm-Up Drive

Families clean closets for a community clothing drive. Students sort clean coats, boots, and mittens to match sizes and needs. **Pros**: items get a new life, helps neighbours, reduces buying new. **Cons**: must be clean and safe, not every item is needed, some things (like used helmets) shouldn't be regifted. Decide what to regift, what to recycle, and what to discard.

7

My Role

Draw a picture of what your character did during the role-play.



Rubric

How did you do on the activity?

Criteria	1 Point	2 Points	3 Points	4 Points						
Show the R	R not shown or wrong; no reason.	R shown a little; reason unclear.	R is clear with a simple reason or example.	R is very clear, strong reason and a useful real-life tip.						
Voice (Too quiet or hard to hear.	Sometimes clear, not steady.	Clear and fits the character.	Loud, clear, and very expressive.						
Action	p ns;	Some actions; props helped a bit.	Actions matched the R; props helped understanding.	Many clear actions; props used safely and very well.						
Stay in Role		netimes.	Mostly stayed in role.	In role the whole time.						
Teamwork	Did not help or listen.	Aelpe	Helped, shared, stayed on ti	Included everyone, shared, listened, and kept the group on time.						
Teacher Comments										
Student Com	nments – What Cou	ıld You Do Better?								
				8						
%										

Curriculum Connection
M 1

How Long Does Garbage Take To Decompose?



1) What surprised you about how long garbage takes to decompose?

2) How does this graphic show the importance of recycling? What happens when we don't?

Plastic

Recycling

The Journey of Recycled Plastic

The Journey of Recycled Plastic

Have you ever wondered what happens to the plastic bottle after you toss it into the recycling bin? It goes on a fantastic journey to become something new!

Step 1: Con

Our recycle property housel property pr

Step 2: Sorting

Next, the collected waste governecycling center. Here, workers and machines sort out different materials separatery lastic, glass, and metals. Our plastic bottle is grouped with other plastic it

Step 3: Cleaning

Now, it's bath time for the plastic! The plastic waste is to go of any food, dirt, or other stuff that might be on it. It's important to have an extent step!

Step 4: Shredding

Once the plastic is clean and dry, it goes into a big machine that shreds it into tiny pieces. These pieces, or flakes, are easier to handle and process.

Step 5: Melting and Reshaping

The flakes are melted in a big oven. The melted plastic is then shaped into small pellets. These pellets can be used to make all sorts of new things!

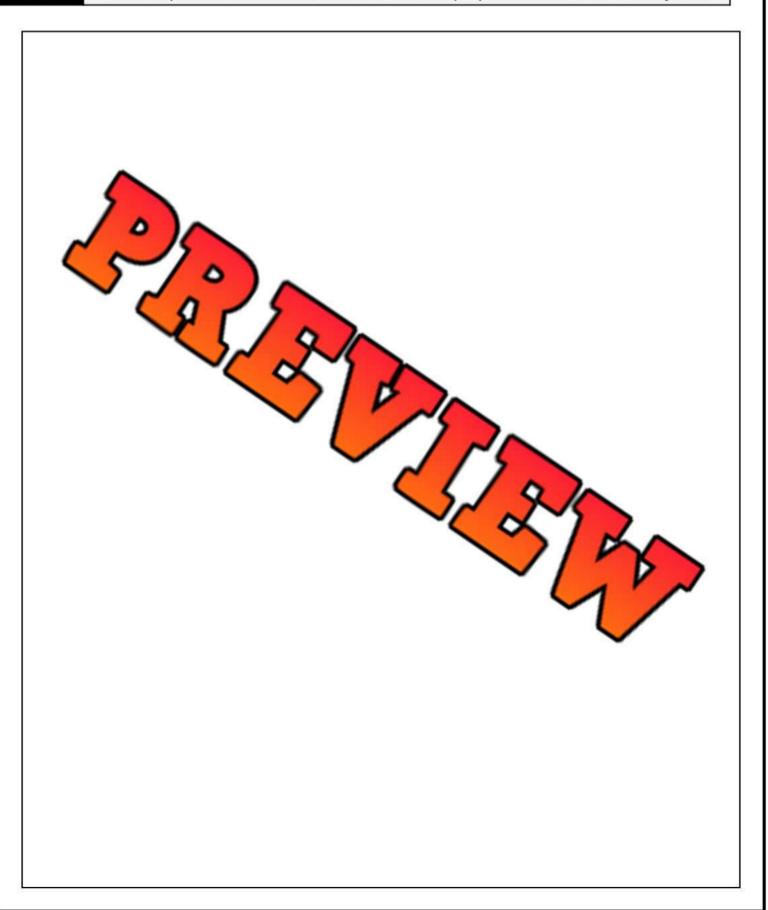
Step 6: Making New Products

Finally, the pellets are sent to factories. There, they can be used to make new products like clothing, toys, and even new plastic bottles!

Curriculum Connection M.1

Poster

Draw a poster below that outlines the steps plastic takes to be recycled



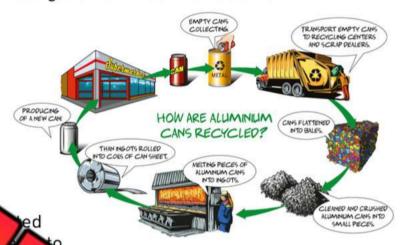
The Journey of Recycled Metal

The Marvelous March of Recycled Metal

Metal is an amazing material that can be recycled over and over again without losing its strength. Let's see how a piece of metal goes from trash to treasure!

Step 1: Collection

The adventure begins at home! When you finish the a metal item like a soda can, into your recycling bin. A specific cling truck will come to and take all the context.



Step 2: Sortin

At the recycling the m from other material of the different types, like alunts of the material of the material

different types, like alung so el, or This is important because different types of metal need different en ing.

Step 3: Shredding

The sorted metal items are shredded in smaller es. makes it easier to process and melt down. It's kind of like how it is reported to all ice cube than a big one!

Step 4: Melting

The shredded metal is then placed in a large furnace and Different metals melt at different temperatures. For example, all lower temperature than steel.

Step 5: Purification

The melted metal is then purified. This step removes any remaining impurities so that we have clean, pure metal ready to be made into new things.

Step 6: Forming

The clean, melted metal is then poured into moulds where it cools and hardens. The metal might be shaped into big blocks called ingots, or into thin sheets, or even into wire.

Step 7: Making New Things

The new metal pieces are then ready to be used to make brand new items! This could be new soda cans, parts for a car, or even parts of a bicycle!

Curriculum Connection M.1

Poster Draw a poster below that outlines the steps metal takes to be recycled



Curriculum Connection CS.1

STEM Assignment - Recycling Sorting Machine

Much of the sorting of recyclables is done by machine. Here is how.

- All recycling moves by magnets. The magnets separate the metal before being sent to the metal pile.
- 2) Cameras with artificial intelligence can separate paper from the rest
- 3) The rest of the materials are put in water. Glass will always sink to the bottom, which parates it from floating materials
- 4) Som s will float and others will sink. Therefore, the rest of the many than the will be plastic.
- 5) ass an n the bottom will be separated by humans

Imagine a mage sorte lables. Finish the If/Then statements below to explain where the cling of bow it will be moved. Perhaps air jets?

IF/THEN

Write code for y

If the recycling is magnetic

THEN

If the cameras detect paper

THEN

If the recycling sinks to the bottom of the floatation tank

THEN

If the recycling floats

THEN

If the human detects glass

THEN

ELSE

Curriculum Connection CS.1

Draw your invention or sorting assembly line. Make sure you have:

- ✓ A place to put the recycling
- ✓ Where the recycling will go
- ✓ The magnets, floatation tank, and cameras to separate the recycling





Questions Answer the questions about your machine below

1) How does your recycling sorting machine work?

2) H es your machine o sort

use code? Write one example line of code for the

3) How much does it cost to make your machine

4) Who will you sell your machine to?

5) How much will you sell it for?

6) If you sell 3 machines today, how much money will you make? Remember to subtract how much the machine costs to make!

Waste Management Issues

Waste Management

Name:

With the global population growing, the waste we produce is also growing, but at a much higher rate. People now have access to more material goods that they consume and then need to dis

envir t, as the is getting out of



control. Waste ref the methods we use to handle the waste.

Waste Disposal Site

In many countries around provided was steed at the source (home, business) and sent to a waste disposal site. The provided waste disposal sites is most often incinerated. Incineration means the page is the Many of the incinerators around Canada burn up to 200 truckloads of garles day. It is not negotiated that up to 50% of the waste that goes into the incinerator college.

Landfill Sites

Most people call a landfill site a dump. This is the opposite of a sanifactor of the second involves dumping the garbage in a huge pile. The issue with landfill sites in the new are often fire hazards that can cause wildfires and forest fires. Dumps are also the ideal feeding grounds for rats who carry diseases that can spread to humans.

Sanitary Landfill

The other way the garbage is dealt with is through the use of sanitary landfills. At a sanitary landfill, a thin layer of waste is put into a trench alongside a layer of soil. This layering continues until the trench is full. A full trench looks like a large hill. Once the sanitary landfills are full, these places can be repurposed as golf courses or toboggan hills because of the hilly landscape.

Questions Use information from the text to support your answer

1) Why is waste management needed? Why is it becoming more challenging?	
---	--

2) What design wink is the best way to manage waste?

Visualizing

Draw wh

while you were reading

Multiple Choice

Circle the correct answer

1. Landfills can be repurposed for	Golf	Ponds
2. Most garbage is	Incinerated	Piled
3. Sanitary landfills layer garbage and	Waste	Soil
4. A landfill site is commonly called a	Неар	Dump
5. Dumps are feeding grounds for	Rats	Deer

Curriculum Connection
M.1

Environmental Effects – Incinerating Waste

Why Do We Incinerate Waste?

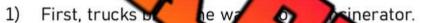
We incinerate waste mainly because it helps reduce the amount of garbage we send to the landfill, and it can also produce energy. The process of burning waste, or incineration, can convert waste into heat energy.

This heat except can be used to make electricity

that power mes and cities!



Incineration w big



- 2) The waste is then put and g, hot where it gets burned. This burning turns the waste into ash a ses
- The ash falls to the bottom of the and in the gases rise into the atmosphere.

What Happens to the Environment?

Incineration can be helpful because it makes a lot of waste up example, burning 3 bags of trash can create just 1 bag of ash! But have some problems. Here are a few:

- Air Pollution: Even though the gases are cleaned, some pollution can still escape into the air. This pollution can include chemicals that are bad for our health and the health of animals.
- More Waste: The ash from incineration still needs to go somewhere, usually a landfill. So, we're still making waste.
- Energy Use: Incineration needs a lot of heat, which means using a lot of energy. This
 energy often comes from burning fossil fuels, which can add to climate change.

and i ted to be put in a landfill.

Exit Cards

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

Name: Circle the word that fits on the blank. incinerate 1) We ____ waste to make les bage. recycle compost 2) Burn pro energy 3) Incine ation waste into _ 4) This ____ can m electricity for homes. 5) Some ____ pollution can still escape.

Name: Circle the word that fits on the blank. incinerate We _____ waste to make less garbage. recycle compost Burning waste can produce ____ for cities. energy heat Incineration turns waste into _____ energy. light heat 4) This ____ can make ectricity for homes. light water pollution air

Name: Circle the word that fits on the blank. incinerate 1) We waste to make less garbage. recycle compost 2) Burning waste can produce ____ for cities. energy heat 3) Incineration turns waste into _____ energy. light heat 4) This ____ can make electricity for homes. light water 5) Some ____ pollution can still escape.

Circle the blank. 1) We make less garbag ecycle compost 2) Burning waste can produce ____ for cities. energy heat Incineration turns waste into _____ energy. light heat 4) This ____ can make electricity for homes. light water 5) Some ____ pollution can still escape.

Curriculum Connection M.1

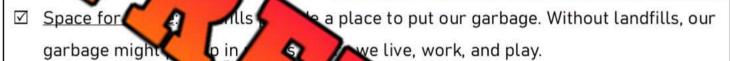
Landfills - Benefits and Drawbacks

What are Landfills?

Landfills are like giant bins for our waste. They are places where we put things that we don't want or need anymore. From old toys to food scraps, lots of different waste can end up in a landfill.

The Benef

Landfills e od things about le:



☑ Energy Production: See an fills contained the gas produced by rotting garbage to make electricity as calculated and cities!

The Drawbacks of Landfills

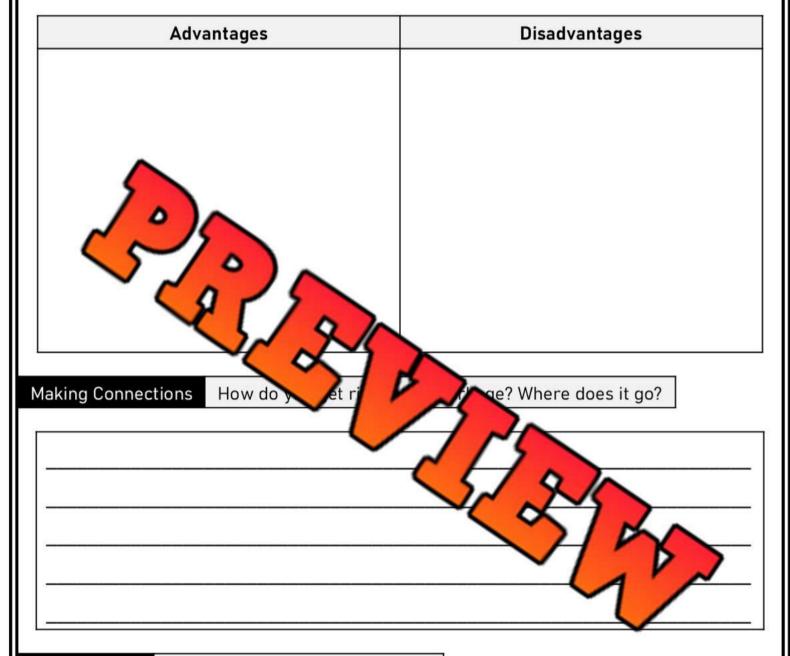
But landfills also have some not-so-good thin ut the e a few:

- Pollutes the Environment: As garbage rots, it can make harming
 gases aren't collected, they can escape into the air and hurt the environment.
- Harmful to Wildlife: Landfills can be dangerous for animals. They might eat things that are bad for them or get stuck in the garbage.

Conclusion

Landfills play a big role in handling our waste. They have benefits, like providing space for our garbage and sometimes making energy. But they also have drawbacks, like taking up land and hurting the environment and wildlife. So, remember to reduce, reuse, and recycle to help cut down the amount of waste we produce!

Think What are the advantages and disadvantages of using landfills?

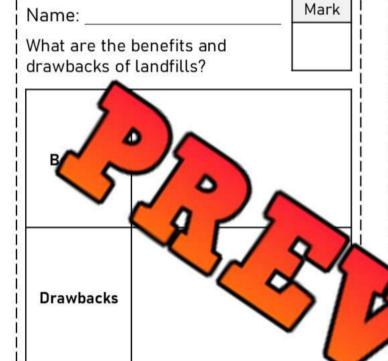


True or False Is the statement true or false?

1) Only food scraps can end up in a landfill.	True	False
2) Landfills don't use much land.	True	False
3) As garbage rots, it can make harmful gases.	True	False
4) Landfills are safe for animals.	True	False
5) Landfills can't be used for making energy.	True	False

Exit Cards

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



What are the benefits and drawbacks of landfills?

Benefits

wbacks

Name: ______ Mark

What are the benefits and drawbacks of landfills?

Benefits

Nam
What are to efit drawbacks of tendfi

Benefits

Drawbacks

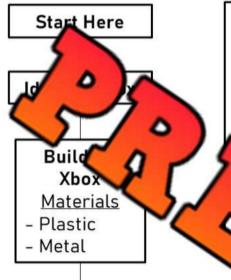
Drawbacks

Curriculum Connection M 2

Life of a Consumer Product - Flowchart

Life of a Consumer Product

Check out the flowchart below to see the life of a consumer product (Xbox). Notice the different disposal methods.



Incineration

Xbox is incinerated.
The burning of the plastic and metal emits toxic fumes into the air. These issions are gour planet ving our

Landfill Site

The Xbox will sit in a landfill site for millions of years. Other trash will pile on top of it. It will be part of a huge pile. The pile of trash may light on fire or it may be a home for rats that carry diseases.

Xbox is Used

Xbox is purchased and played until it is old, breaks, or a new one comes out

Dispos

Xbox is read and needs to be disposed of

Recycled

The Xbox is recycled properly. It is sent to an electronics recycling depot. The metals and plastics are reused to make new gaming systems and other things that use plastic and metal as materials.

Regifted

You don't need the Xbox anymore, but someone else will enjoy it. The Xbox stays out of a landfill and is not incinerated.

Repaired

The broken Xbox is repaired and works again. No need to throw it away!

Curriculum Connection M.2

Instructions

Create your own flowchart like the one about the Xbox. Choose your own consumer product and be creative with your flowchart.



Curriculum Connection M.2

Story - Journey of Robo the Robot

Draw

Illustrate the story by adding pictures to the book

The Journey of Robo the Robot

Once upon a time, there was a shiny robot named Robo. Robo was made from all sorts of robots like plastic, metal, and even some special electronic parts.

Robot girl named Emma. Emma loved to play with Robo. They would not present adventures together, solve puzzles, and sometimes, Robo would not not ber homework.

As the years passed and the grew bootstarted to break. First, it was Robo's screen that went blanchen and to grind, and finally, one day, Robo just stopped working alto the grind of the grind, and finally, one

Name: 70 Curriculum Connection M.2



But Emma was a smart girl. She knew that tossing Robo, the set solution. Emma knew that if Robo was thrown away, he could not a landfill, where he would sit and rot for hundreds of years. Not only that, but the harmful substances inside Robo could leak into the ground and harm our earth. Emma also knew that incinerating, or burning Robo, would release toxic gases into the air. She didn't want Robo to harm the environment in any of these ways.

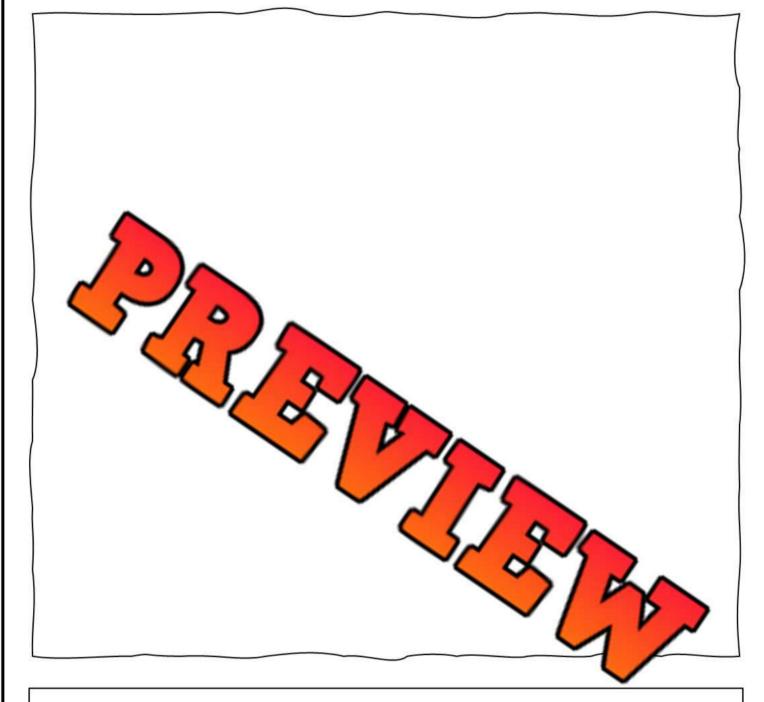
So, Emma and her mom decided to take Robo to a special place called the electronics recycling center. There, they met a kind lady who explained to Emma how they would help Robo start a new life.

Robo was first sorted based on its materials: the plastic was separated from the metal and the electronic parts were taken out. Then, these materials were cleaned and processed. The plastic was melted and turned into pellets, which could be used to make new toys or household items. The metal was also melted and could be used to make new electronics or even parts of a car.

71

Robo's experience ic parts were the most special. They were carefully taken apart to remove metals like gold, silver or copper which can be used again in nectronic





In this way, even though Robo was broken, its parts didn't end up in a landfill or get burned in an incinerator. Instead, they were given a new life in new products.

Emma felt happy knowing that Robo was helping to create new things and not harming the environment. She knew that Robo's adventure was not over, but it was just beginning anew. This made Emma understand the importance of recycling and how it helps to keep our environment clean.

Curriculum Connection M.2

Spelling Bee: Waste Management Vocabulary

Objective

What are we learning about?

Students will learn and spell key words about waste and waste management (e.g., landfill, recycle, compost, e-waste, incinerator). This builds vocabulary, supports understanding of how we have waste, and increases confidence speaking in front of others.

Materia

we need for our activity?

- Pre-prepa
 ds (provided)
- Bell or buzzer nallings
- · Timer (optional)

Instructions

1)

How will we complet

ivity?



on class size

ally

SBETTING 1

Divide participants into teams or have them composed and dynamics.

Prepare a list of key words that connect to

- 3) Clarify the rules, including turn-taking, scoring, and handling of miss
- 4) Begin the bee by having the first participant spell a word from the theme list, noting their attempt on the board.
- 5) Use a signal device to indicate correct or incorrect responses and display the correct spelling for any mistakes.
- 6) Progress through participants, allowing multiple attempts and cycling through the word list.
- 7) Tally correct spellings to determine scores for each participant or team.

Name:

Spelling Terms

List of words for the Spelling Bee:

74

Easy	Moderate	Hard	Very Hard			
waste	landfill	incinerate	gasification			
trash	rubbish	incinerator	pyrolysis			
gar	refuse	leachate	sustainability			
25/	organic	hazardous	circularity			
bin 💙	com	contamination	responsibility			
bag		biodegradable	municipality			
dump	collection	ver	conservation			
reuse	sorting	aerob	decontamination			
reduce	cleanup	dlg	agulation			
recycle	battery	microplastics				
sort	sewage	photodegrade	sequestration			
paper	methane	stewardship	remanufacture			
plastic	dumpster	segregation	biodegradation			
glass	upcycle	recovery	incineration			
compost	compost odour		reclamation			

Toxic Waste

What is Toxic Waste?

Waste is anything we need to get rid of. **Toxic waste** is any waste that is harmful to people, plants, or animals. When we get rid of toxic waste, we need to be careful as it could hurt other living things.

Toy and soften made by factories, construction sites, hosp and arm waste can be flammable, corrosive, or reactive.



away old

- Flammable will grease
- Corrosive will burn, runner
 rea
 perials. Example: battery acid
- Reactive will explode easily. Ex explosion pressurized cans

Examples of Toxic Waste in our Households

At home, it is important to be careful with toxic was batteries in the garbage or dump oils down the drain. Do environment because these materials can cause fires, explode, or cause burns and rusting.

When living things in our environment come in contact with toxic waste, they can get sick by consuming it.

S. Do so

Cleaning supplies are usually forms of hazardous waste. Most cleaners are chemicals that are not natural. They do not break down in our environment and they can get into our drinking water and make humans and other animals sick. When we pour chemicals down the drain, we are making our drinking water toxic!

Exit Cards

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

Name: Mark Is the waste toxic? Yes or No? Old batteries Yes No Banana I Yes No Leftove Yes No Yes Plastic No Broken glass Empty pesticide bo Food scraps Old medicine pills Bleach from cleaning Yes bottles

Nam	Mark				
ls th	e waste toxic? Yes or	No?			
Ole	d batteries	Yes	No		
Ва	nana peels	Yes	No		
Le	ftover paint in a can	Yes	No		
Us	ed motor oil	Yes	No		
Pla	astic water bottle	Yes	No		
Br	oken glass jar	Yes	No		
En	npty pesticide bottle	Yes	No		
Fo	od scraps	Yes	No		
	medicine pills	Yes	No		
Bl br	m cleaning	Yes	No		

Is the waste toxic? Yes or No? Old batteries Yes No Banana peels Yes No Leftover paint in a can Yes No Used motor oil Yes No Plastic water bottle Yes No Yes Broken glass jar No Yes Empty pesticide bottle No Food scraps Yes No Old medicine pills Yes No Bleach from cleaning Yes No bottles

Name:



Mark

Medicine - Types and Disposal

Liquid and Solid Medicines

Most medicines come in liquid and solid forms. We take medicine when we don't feel well. The type of medicine we take depends on how we feel. When we have a headache, we might take a pain reliever. When we have a bad cough, we might take cough syrup. If we have a runny nose could take allergy medicine.

Taking M

There we pes ines – prescription medicine and over-the-counter

Prescription Med

When we get medicine in the control of the scription medicine. You cannot buy prescription medicine from with the straining you need it. It would be very dangerous to take a prescription redicine a control telling you to.

It could make you very sick because amoust med be and type of medicine was not made for you. This is we show never take medicine without a trusting adult.

When we get rid of a prescription medicine, we should take it to a drug take back programment the garbage, someone else could find it and take it. Also, when it rains the me will dissolve into the water. This means our drinking water could have medicine it.

Over the Counter Medicine

When you get a cough or a headache, your parents might give you an over-the-counter medicine that they can buy from the store. This medicine can still be dangerous to take if you do not need it. Most medicines say to take it for only a few days because it can harm you if you use it everyday.

Never take an over-the-counter medicine without a trusting adult. There may be side-effects to taking it without food or taking too much. An adult can help you.

Name:

Handling Fluids Safely - WHMIS

What is WHMIS?

WHMIS stands for the Workplace Hazardous
Materials Information System. It is Canada's
national hazard communication standard. WHMIS
is needed to tell people about the fluids they
will be hand any fluids we use at home
or at wor are full if used incorrectly,
handle on ectly ed of incorrectly.

To keep pe add ablished the WHMIS progi sure and workers receive consist of applications and applications and applications and applications and applications and applications are applications.







osive Co





Flammable







health and safety information — e hour aducts they may be exposed to. When someone gets a new job, they will akely — omp — VHMIS training, which teaches them how to read symbols put on the late of dangers and

WHMIS Symbols

Explosive	Explosives are highly unstable substantial could be could
Compressed Gas	Gas is stored under pressure – be careful n. dlin disposing
Irritant	Will immediately irritate skin, eyes, or respiratory trace
Flammable	Will self-ignite when exposed to water or air
Corrosive	Will cause corrosion/burns or eye damage on contact
Health Hazard	A cancer-causing agent or substance that causes damage over time
Oxidating	Chemicals that facilitate burning or make fires burn hotter/longer
Toxic	Substances, such as poisons that have an immediate and severe toxic effect
Environmental Hazard	Chemicals toxic to aquatic wildlife

Curriculum Connection

Questions

Use information from the text to support your answer

1) What is WHMIS? Why was it created?

2) Before was created in 1998, what issues could have happened in the workplace?

Instructions

Label each

Compressed Gas

Explosive

Irritant

Flammable

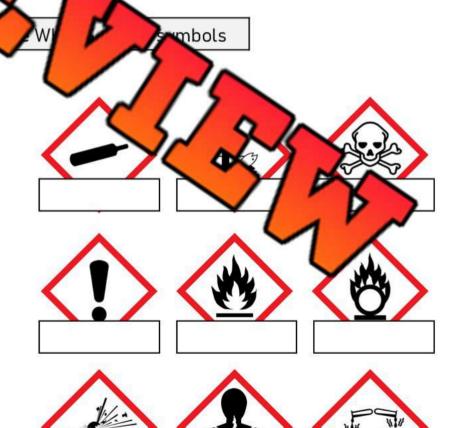
Corrosive

Health Hazard

Oxidating

Toxic

Environmental Hazard



Curriculum Connection M.4

Matching

Match the description to the name of the safety symbol

Answer	Safety Symbol	Description
	Explosive	a) Will cause corrosion/burns or eye damage on contact
	Compressed Gas	b) Gas is stored under pressure – be careful handling, storing, and disposing
	Irritant	c) Substances, such as poisons that have an immediate and severe toxic effect
25	able	d) A cancer-causing agent or substance that causes damage over time
~ <	Posive) Will immediately irritate skin, eyes, or respiratory
	Heatt	es are highly unstable substances that
	Oxidating	g) aquatic wildlife
	Toxic	h) coemicals acili urning or make fires burn hotte
	Environmental Hazard	i) Will self-ignite ex osed to r or air

Word Search

Find the words from the word bank in the

Explosive	Gas
Compressed	Hazard
Environmental	Oxidating
Irritant	Toxic
Flammable	Health
Corrosive	Hazard

Q	H	R	T	P	G	L	E	C	K	N	X	A	C	Z	P	U
Y	F	L	A	M	M	A	B	L	E	I	R	M	0	T	\mathbf{T}	Q
Н	A	Z	A	R	D	H	A	Z	A	R	D	M	M	0	E	F
0	X	I	D	A	\mathbf{T}	I	N	G	Y	Z	В	K	P	X	I	X
Q	F	V	H	R	В	В	D	F	M	V	M	\mathbf{E}	R	I	A	U
I	R	R	I	T	A	N	\mathbf{T}	I	M	G	N	\mathbf{T}	E	C	S	I
K	J	M	H	I	L	A	U	E	X	P	L	0	S	I	V	E
Y	P	M	H	E	A	L	T	H	\mathbf{T}	T	G	A	S	J	D	V
E	N	V	I	R	0	N	M	E	N	T	A	L	E	G	I	P
C	0	R	R	0	S	Ι	V	E	X	C	T	R	D	G	F	P

© Super Simple Sheets supersimplesheets.com

Product Name

Picture of Product

Symbol

© Super Simple Sheets supersimplesheets.com

Product Name

Picture of Product

Symbol

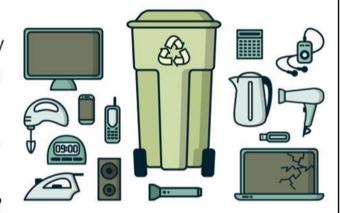
Curriculum Connection M 4

Electronic Waste

86

What is E-Waste?

Electronic waste, also known as e-waste, is any electronic device that is no longer wanted or is broken. This can include things like televisions, computer phones, and even video games.



Why of E-Waste Safely?

- It Takes Up Space: Electron and space of space. If we throw them away with our regular trash, they fill up affills
- It Wastes Resources: Inside your electronic e are metals like gold, silver, and copper. By recycling, we can use the e

How to Get Rid of E-Waste Safely

We can keep e-waste out of the trash by doing these things:

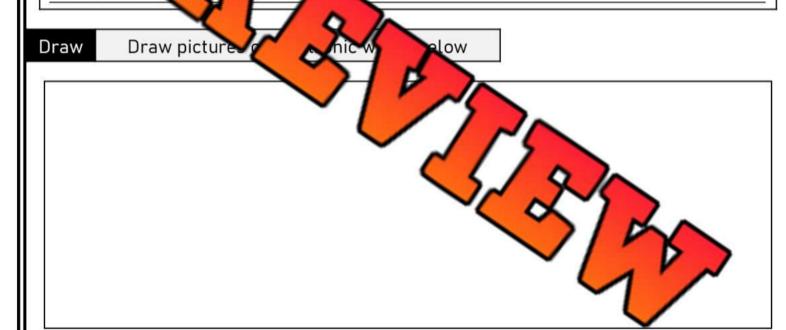
- Recycle: Many cities have e-waste recycling programs. They have special bins at recycling centers where you can drop off your old electronics. Some electronics stores even have bins where you can bring in old gadgets.
- Donate or Sell: If your device still works, consider donating or selling it. There are many charities or people that would be happy to have it.
- Return: Some companies let you return their products when you're done with them.
 They'll make sure it's either recycled or properly disposed of.

Name:

Questions Answer the questions below using evidence from the text

1) Willy is it import	ant to get nu or e-w	vaste property:		

2) How can et rid of your e-waste?



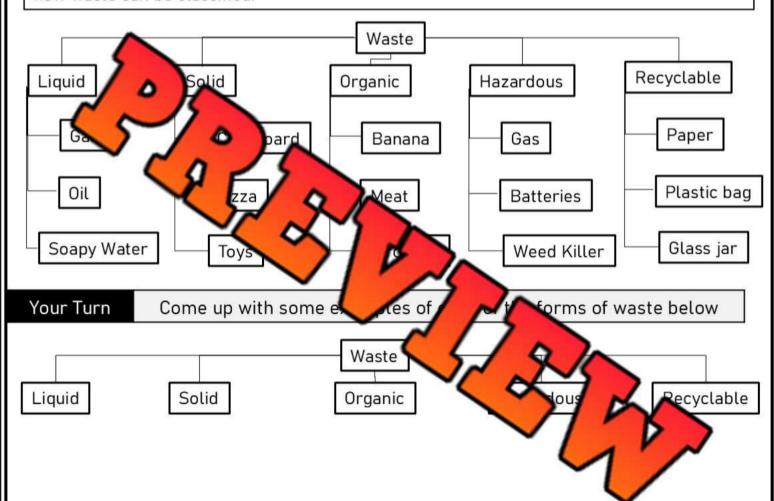
True or False Is the statement true or false?

1) E-waste means unwanted electronic devices.	True	False
2) E-waste can include video games and televisions.	True	False
3) It's safe to throw e-waste in regular trash.	True	False
4) E-waste can contain harmful things like lead.	True	False
5) There are precious metals like gold in electronics.	True	False

Classifying Types of Waste

Classifying Types of Waste

All waste can be classified into one of the following 5 categories: liquid, solid, organic, hazardous, and recyclable. Some waste belongs to more than one category. For example, carboard is recyclable and is also a form of solid waste. Check out the example below of how waste can be classified.



Did any of the waste you chose belong to two different categories of waste? Explain.

Curriculum Connection M.3

Identify the Types of Waste

93

Directions

Circle the type of waste it is. There may be more than one option to circle.



94

Curriculum Connection M.3

Memory Game – Match Terms and Definitions

Objective

What are we learning about?

Students will review and understand key terms by playing a memory match game. Each card shows either a vocabulary term or a short definition. Students will match the correct pairs and in the meaning in their own words.

Mater

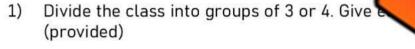
a vu need for the activity?

- Set of Mem (provided)
- A small table or clear

Instructions

How will you complete

avity?



Sour Ry Game cards.

- Have each group lay all the cards face down in a grid or
- The students take turns flipping over two cards at a time, trying in term and its definition.
- 4) If a student finds a match, they remove those cards from the grid and keep them.
- 5) If the cards do not match, they are turned back over, and the next student takes a turn.
- 6) The game continues until all the cards have been matched.
- 7) After the game, review the terms and definitions with the class.
- 8) Discuss why these terms are important to understand and how they relate to the topic.

95

Curriculum Connection M 3

Cards

Name:

Memory Game Cards

liquid waste

Waste in liquid form, like wastewater, oils, or chemicals, needing treatment to protect nature.

Everyday trash we can touch, like wrappers, toys, paper. Some gets reused or recycled.

organic waste

plantal leftovers from plantal plantal leftovers from plantal plantal

hazardous waste

Dangerous batteries, paint, of emicals that can harm people, animals, and water.

recyclable waste

Items that can be processed into new products, such as paper, glass, metal, and some plastics.

96

Name:

Memory Game Cards

e-waste

Old or broken electronics, like phones, computers, or TVs, needing special recycling to remove metals.

Canada's system of symbols and rules that teach safe handling of hazardous products at work.

the storage and

landfill

toxic waste

A large, en where garbage is led and covered to protect soil and water.

incinerating waste

Burning waste in special furnaces to reduce volume and sometimes make energy; can cause pollution.

Cards

Memory Game Cards

consumerism

The habit of buying more and more things, which often creates extra packaging and waste.

Turning organic waste into nutrient-rich soil by letting it break down in a compost bin.

decomposers

things like worms, d bacteria that do d matter into

biodegradable

Able work naturally in a sess materials, often with help from decomposers and moisture.

waste management

How communities reduce, collect, sort, recycle, treat, and safely dispose of different wastes.

Wasted Materials in the Classroom

When students bring a lunch from home, they often have things to throw out after lunch. If you look in the garbage after lunch, what things will you find?

Are there any materials in there that could have been recycled?

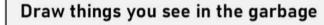
When you put things in the garbage, it is either burned or put

in a landfile propage goes to a landfill, it stays there forever, until it decomposes.

Questig

byou see in the garbage after lunch?







Question

Are there things that could have been recycled?

	Name
1)	
2)	
3)	

Draw things that could have been recycled

Plan - Less Waste in Our Class

Waste is not good for our environment. To make less waste in your class, here are some ideas you could do.

- 1) No waste lunches bring only food that you will eat and eat all your lunch!
- 2) Use environmentally friendly packaging get your parents to pack your begin ith no single-use plastics. Instead, use reusable bags.



- 3) Set out food scraps in the compost, not the garbage
- 4) Use as paper or ur teacher to print on both sides and use scrap paper for notes. Keep 1.5. bin is paper that is Good On One Side.
- 5) Use only reusable water bottle
- 6) Don't throw things out, want anymore, don't throw them stead them to other people.

Plan

What can your class do to make leste

	Ideas
1)	
2)	
3)	

Name:		Date:
	Unit Test – M	atter: Waste Unit
Multiple Choice	/10	
1) Compost can I	oe made from:	2) Worms in compost help to:
a) Fruits		a) Eat
b) Metals		b) Swim
c) Plastic		c) Sleep
d) Glass		d) Decompose
3) E-V	15	4) Incineration means
a) Appt	() ^	a) Using a landfill
b) Tables	0 / 5	b) Recycling waste
c) Computers	()/ 9/	c) Using less
d) Books	~ ~~	Rurning waste
5) Plastics shoul	d be	ater is what type of waste?
a) Recycled		a) Liv Vast
b) Thrown in the	garbage	wast
c) Incinerated		c) Gaw
d) Used a lot for	packages	d) Hazardo
7) Batteries are	what type of waste?	8) Cheese should be.
a) Liquid waste		a) Recycled
b) Solid waste		b) Thrown in the garbage
c) Gas waste		c) Incinerated
d) Hazardous wa	ste	d) Composted
9) Which is not o	ne of the 7 Rs?	10) Which can't be recycled?
a) Reduce		a) Chip bags
b) Reuse		b) Cardboard

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c) Tin can

d) Plastic bottle

c) Require

d) Repair

Define	What do the terms below mean? Each question is worth 1marks.
	/3
Term	Definition – What does it mean?
Waste	
Hazardou Waste	ıs
Flamma Mate	
Short Answer	question is worth 2marks. Mark / 6
1) Why is it I	nelpful to reprove oys of the contract of the
2) What is th	ne role of the Lieutenant-Governor in Arrange (1997)
3) Give 2 exa	amples of each of the types of waste:
Solid:	
Liquid:	
Gas:	

		Mark
Long Answer	Answer the questions below – Each question is worth 5 marks.	/ 10
1) What can yo	ou do to reduce the amount of waste you make? Give at least 5 ways	
		<u> </u>
5		
	25/20	
ę <u>.</u>		-
2) How is wast	e managed? Where does ? Why i environment?	
2		
79		_
1		
		3
P-		