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MINI POSTERS

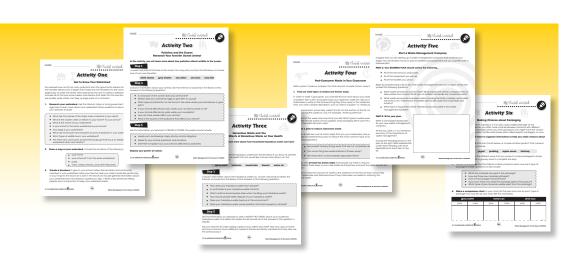
Hands-on Activities

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help you.

■ Before You Read

NAME:

What Is Waste?

Complete each sentence with a word from the list. Use a dictionary to

dispose	toxic	raw materials	manufactured	waste)
a) The	word	describes any	y part of an abject that is	not used.
b) You	I	of objects when yo	ou throw them away.	
		e from machines using r goods or produc	many different raw materi cts.	ials are
d) The	word	describes son	nething that is harmful to	living thing
e) Mat	tter from the earth t	hat is used to make pro	ducts is called	
Match	the product on t	the left to the waste	that usually goes alo	ong with
1	cereal		plastic container	
2	markers		bottle or can	
3	soda		poard box, plastic bag	
4	yogurt		tree scraps	
5	notebook	cardb	ooard box, plastic tubes	
5	notebook	÷		baske

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b) What do these five things have in common?

NAME:

What Is Waste?

Circle the word True if the statement is true. Circle the word false if it is false.

a) Parts of a product that are used up are waste.

True

- **False**
- b) Your body gets rid of wastes as part of life processed

True

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False

c) The packages that products come in are

False

d) Waste is easy for societies to get rid of b ekly trash collection.

e) Toxic waste can be safely disposed of by burying it deep underground.

True

False

- 2. Put a check mark (/) next to the answer that is most correct.
 - a) Which waste breaks down easily in the environment?
 - O A a banana

 - 0 D
 - Which of these wastes is toxic?
 - O A tree scraps from a paper mill
 - O **B** a half-empty box of rat poison O **c** an empty glass pickle jar
 - **D** a broken ceramic plate

Jana drinks a box of apple juice. Which of these is NOT waste from this product?

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- O **A** plastic wrappers
- O B the apple juice
- O **c** apple seeds and stems
- O **p** the straw
- Which of these is an example of packaging?
 - O **A** a marker cap
 - **B** an orange peel
 - O c a paper cup O **D** an egg carton
 - Waste Management: At the Source CCP5764-1

NAME:





What Is Waste?

hat do you think of when you hear the word "waste?" You might temember a teacher telling you not to waste paper. Maybe you have seen a progr not wasting water. In these cases, waste means not using more than you need.

Waste has another meaning. Any part of an object that is not used is called waste. For example, think about what happens when you eat an apple. Some parts you don't eat, such as the seeds, stem, and core. These are wastes that you might throw away. The part of the apple that you do eat is digested, or broken apart, inside your body. But your body cannot use all of the apple that you eat. The parts that it cannot use are removed from your body as waste.



Describe the two meanings of the word waste. Have you thrown away any waste today?

When does waste cause problems?

In our modern world, the use of manufactured goods, or products, results in a lot of waste. Waste is produced during several step

- getting the raw materials to make product,
- manufacturing the product
- packaging the product, and
- at the end of the product

Waste from manufactured products can cause big problems for people and the environment. Unlike the apple cores, many parts of manufactured goods do not easily break down in the environment. People must find places to dispose of these wastes, but space is running out



Some wastes m Some wastes may also be harmful, or **toxic**. When these wastes get into land, water, and air, they can harm living things. People live in the environment, not separate from it. In most cases, there are no completely safe places to dispose of harmful waste. Some of the waste often gets back into the air we breathe, the water we drink, and the food we eat. Finding ways to manage waste is an important part of modern society.

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What Is Waste?

3. How would you state the meaning of waste in your own words?

1.	Do all types of wastes create the same problems? U			r
	answer.	.4		

Extension & Application

5. Take a look at the wastes thrown away in your CLASSROOM. Write a list of each item placed in your classroom trash bin for one day. Sort the wastes using the chart below.

Food Scraps	Packaging Used School Supplies	Other

What is the most comm pe of waste that is thrown away in your classroom?

or the type of wastes thrown away in Were you surprised your classroom? Explain

Now take a look at the wastes thrown away in your HOME. Write a list of each item placed in your household trash bin for one day. What are the three main groups of trash in your home?

How does your household waste compare to the classroom waste? Are there differences in the types of amounts of waste? Explain.

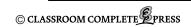






Chart Your Waste

You will need:

- Mass balance
- Graph paper
- Pencil or marker

Set up a table like the one below.

Today's Waste

Description	Category	Mass, in grams

You are now going to record each piece of waste you throw away for one whole day. Write a short description of each piece of waste, for example, "plastic wrapper". Then, in the category column, write one of the

- packaging
- product

Products include all used or broken items, such as an empty pen.

At the end of the day, add up the total mass of waste for the day. Then, calculate the percent of your waste that was packaging and the percent that was used or broken wing equations: products. Use the fol

percent PACKAGING waste = mass of all packaging waste + total mass waste percent PRODUCT waste = mass of all product waste + total mass waste

Set up a pie chart to display your results.

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NAME:

Comprehension Quiz



Circle the word True if the statement is true. Circle the word False if it is false.

- 1) Parts of a product that you throw away are waste.
 - True False
- 2) Pre-consumer waste is not as much of a problem as post-consumer waste.
- 3) Post-consumer waste is any waste made during the manufacturing of goods and products.
- 4) The usual packaging of toothpaste includes a met al tube, plastic cap, and cardboard box.
 - True **False**
- A landfill is a facility where solid waste is burned to produce fuel for energy. True **False**
- 6) The best way to dispose of paint, bleach, and other liquid hazardous waste is to pour it down a drain and run not water for at least ten minutes. True **False**
- 7) Fertilizers used on farms are ar le of nonpoint source pollution.
 - True **False**
- Oceans are so large that they cannot be harmed by human waste; therefore, they are a good place for dumping.

True False

Part B

Look at the package of loose paper to the right.

In the boxes below, describe each type of waste made by the package of paper.



b) post-consumer



SUBTOTAL:

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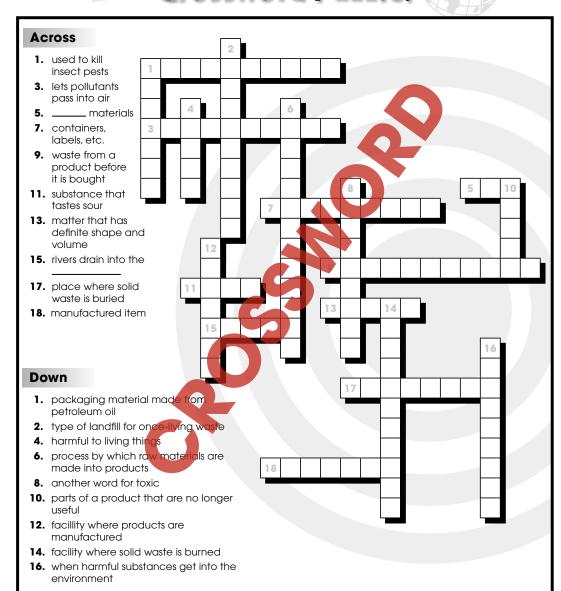
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After You Read

NAME:

Crossword Puzzle!

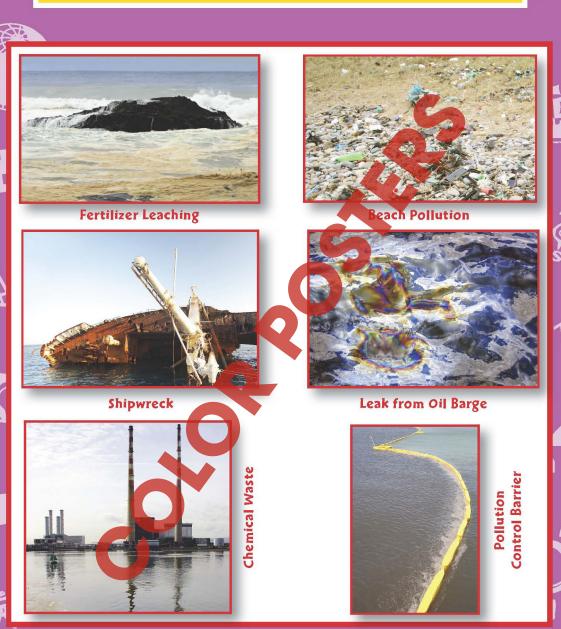


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Waste in Our Oceans



NAM	直導		After You Read S Waste? waste in your own words?					
4.	Do all types of was answer.	tes create the sam	e problems? Use examples t	to explain your	3. Answers will vary 4.	Answers will vary		
		wastes thrown awa	y in your CLASSROOM. Write one day. Sort the wastes using Used School Supplies		Answers will vary 5. Answers will vary	Answers will vary		
	What is the most co	ommon type of wa	ste that is thrown away in yo	our classroom?		Answers will vary		
6.	your classroom? Ex	plain.	waste or the type of wastes away in your HOME. Write of	ING	AN	13 SV	ER	KEY
	placed in your hou trash in your home?	sehold trash bin for ?	r one day. What are the thre	e main groups of	6. Answers will vary	Answers will vary		
© CLA	differences in the ty	ypes of amounts of	10	nent: At the Source CCP5764-1	10	(14)		