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STUDENT HANDOUTS

• Reading Comprehension

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dispo	ose toxic	raw materials	manufactured	waste
-			ny part of an object tha	is not used.
		of objects when y		
		e from machines using goods or produ	many different raw mat	erials are
			mething that is harmful	to living thing
			ducts is called	
. Mat	ch the product on	the left to the wast	e that usually goes	along with
1	cereal		plastic container	
2)	markers	=	bottle or can	
3	soda	: card	board box, plastic bag	
4	yogurt		tree scraps	
5	notebook	cardl	poard box, plastic tubes	s
. α) I	List <u>five</u> things that	are often found in	your classroom was	te basket.
b) \	What do these five th	ings have in commo	n?	

Reading Passage

What Is
hat do you think of when you hear

What Is Waste?

NAME:

hat do you think of when you hear the word "waste?" You might remember a teacher telling you not to waste paper. Maybe you have seen a program about 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 steps:

- getting the raw materials to make the product.
- manufacturing the product
- packaging the product, and
- at the end of the product's use.

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

After You Read

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

4. Do all types of wastes create the same problems? Use exam

Packaging



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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answer.

Extension & Application

Food Scraps

What is the most comm

your classroom? Explain

trash in your home?



What Is Waste?

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.

Were you surprised by the amount of waste or the type of wastes thrown away in

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

Used School Supplies

pe or waste that is thrown away in your classroom?

NAME:

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es to explain your

Other

		Wh	nat Is Waste?	
_	rcle the wo	ord True if the	statement is true. Circle to	ne word false if it
a)	Parts of a p	product that are	used up are waste.	
•	True	False		
b)	Your body	gets rid of waste	es as part of life processes.	
•	True	False		
• ~	The packar	ace that product	ts como in are an evample of w	octo

True Falsed) Waste is easy for societies to get rid of because of weekly trash collection.

True False

NAME:

e) Toxic waste can be safely disposed on 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 pee
 - O B a plastic wrapp
 - C a used batte
 - O **D** a broken co

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- c) 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
 - O **p** a broken ceramic plate

- b) Jana drinks a box of apple juice. Which of these is NOT waste from this product?
 - O **A** plastic wrappers
 - O B the apple juice
 - O **c** apple seeds and stems
 - O **p** the straw

After You Read

d) Which of these is an example of packaging?

an orange peel

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- O **a** a marker cap
- O **c** a paper cup
- O **D** an egg carton

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How does your household waste compare to the classroom waste? Are there

differences in the types of amounts of waste? Explain.

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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 following

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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After You Read

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:

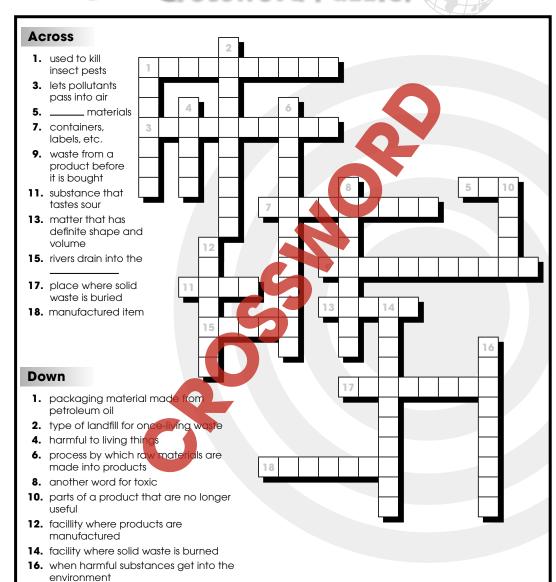
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Crossword Puzzle!

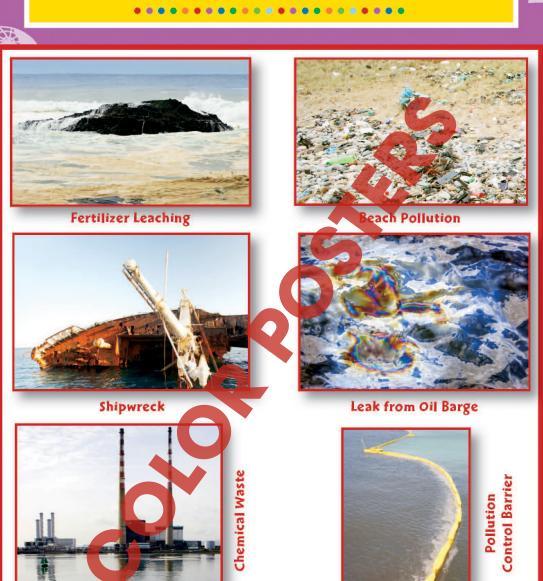


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Waste in Our Oceans





After You Read

NAME:

Post-Consumer Waste

4.	Explain the difference between pre-consumer waste and post-consumer waste .

5. Explain the difference between durable goods and nondure	able goods.
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Extension & Application

6. Keep track of your post-consumer waste. Use the chart below to classify everything you throw away for one week. Multiple use items are products that you use more than one time before throwing them away.

DURABLE	NONDU	JRABLE
	Multiple Use	Disposable

EASY MARKING AN Solve of trees to petroleum oil KEY

Which column had the most entries after one week?	
Brainstorm a list of ways that you could lessen the amount of disposable throw away.	ole waste that you





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pre-consumer: created before a product gets to a consumer;

post-consumer: created after a product gets to a consumer

Durable goods last much longer than nondurable goods



Answers will vary

Materials in which a

product is packed or

wrapped

1. (C

2. (F

3. B

4. (A)

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Materials that contain or protect products; bottles, jars, juice boxes



a) Styrofoam

b) glass jar c) tin can

Uses more raw materials, adds to transportation cost

- d) cardboard box
- e) plastic wrapper f) plastic bottle

Getting raw materials can cause pollution and take away wildlife habitat, creates more waste

e) trees f)glass

Answers will vary



