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Reading Passage

NAME: __

Pre-Consumer Waste

hat types of manufactured products are around you right now? Perhaps books, pens, desks, a clock. All of these things are made in factories from raw materials. During the manufacturing process, some of the raw materials end up as waste. Waste from manufactured products is often called solid waste, because it is made up of mostly solids, such as wood and metal scraps.

Many people think of solid waste as parts of a product thrown away after use. However, most solid waste is actually created *before* a product even gets to you! This type of waste is called **pre-consumer waste**. A consumer is simply a person who uses a product. The prefix "pre" is added to mean "before."

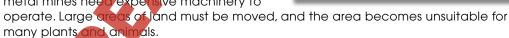


Describe the meaning of the word pre-consumer waste. Give an example of pre-consumer waste.

What happens to pre-consumer waste2

For every ton of waste that people throw away after they buy products, twenty to of waste was made to make those products. Finding a place to dispose of pre-consum waste from factories can be a problem. Long ago, factories used to dump large amounts of solid waste into the environment. Now, stricter laws control how this waste must be disposed.

Getting raw materials can be costly and harmful to the environment. For example, metal mines need expensive machinery to



When manufacturing first began, raw materials seemed plentiful. Land and space for wildlife also seemed plentiful. Pre-consumer waste was often simply thrown away. Now, things have changed. Raw materials are harder to find and more expensive to get. More land is used by people, so less land is available to wildlife. People now look for ways to make manufacturing less wasteful, and to save and reuse scraps instead of throwing them away.

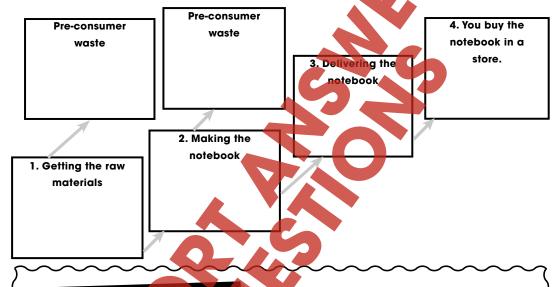
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After You Read NAME: _______ Pre-Consumer Waste

3. Fill in the flow chart below to show how a notebook is made. Begin by describing how people get the raw materials. Then, describe how the materials are made into the notebook. List the pre-consumer waste that is created dur Describe how the notebook gets from the factory to you.



Extension 8 Application

4. Design a prochure which will convince factories to lessen the amount of pre-consumer waste they produce. Choose any product, and write your brochure to the factory that makes that product.

In your brochure, be sure to include:

- information about the raw materials used in your product
- the benefits to the factory of using fewer raw materials
- ways that they can save raw materials, or use less to make the same amount of product



h) What is the name of a place that manufactures goods?

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many different materials?



Reuse Contest



Hold a contest at your school to find the most USEFUL and CREATIVE ways to reitems. Work with a small group to run a contest for your class, or work with your run a contest for your school.

Create posters to advertise the contest. Be sure your posters onswer the following questions:

- Why should students enter the contest? Tell students why it is important to reuse items instead of throwing them away.
- What are the contest rules? What are the prizes

.......

- Where is the contest located? Where should students drop off entries?
- When will the entries be judged? When is the deadline for entering?
- Who will judge the entries? Who is allowed to enter?
- How will the entries be judged? What are the judges looking for? Is there more than one category of winners? For example, you may want to offer one prize for the most practical reuse, and another for the most creative.

Part B

Collect all of the entries. Write a judging checklist that all of the judges can use. To write your checklist, think about what are the most important things you want to look for in entries. Do you want to use a point system for judging?

Choose the winners and runners-up. Keep the best projects on display for a week or two for parents, teachers, and students to view.

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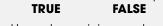
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After You Read NAME: Comprehension Quiz



Part A

- Circle the word TRUE if the statement is TRUE or Circle the word FALSE if it is FALSE.
- A) Corn stalks are an example of agricultural waste



B) Hazardous mining waste can contaminate water supplies TRUE **FALSE**

C) When oil is spilled from a tanker, it spreads out on the ocean floor. **TRUE**

High-level radioactive waste can remain harmful for thousands of years.

TRUE **FALSE**

- Solid waste from Hurricane Katrina is still a prob TRUE **FALSE**
 - About 300 pieces of space junk can be found orbiting Earth.
- **FALSE** 6) Bio-economics is the study of how much money it costs to dispose of organic wastes.

TRUE

136

H) Incinerators can cause air polluti **FALSE** TRUE

Put a check mark (/) next to the answer that is most correct.

- 1. Which of these is high-level radioactive waste?
 - O A uranium
 - O B X-ray machine O c cancer medicines
 - O **b** used fuel rods
- 3. Which of these is an example of agricultural waste?
 - O **A** cyanide
 - O **B** acids O **c** fertilizer
 - O **b** aluminum

- 2. Which of these substances are found in waste from metal mines?
 - O **A** acids
 - \bigcirc **B** oil
 - O c sewage
 - O **p** fungicides
- 4. Which facility will help a community practice zero waste?
 - O **A** biogas
 - **B** incinerator
 - O **c** landfill
 - O **D** nuclear plant

SUBTOTAL: /12 Waste Management CC5767 After You Read

Word Search

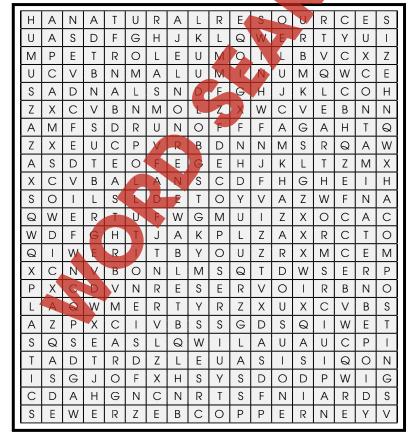
NAME:

Find all of the words in the Word Search. Words are written horizontally, vertically, diagonally, and some are even written backwards.

aluminum fuel composting glass contaminate hazardous copper humus decomposers land drain metal earthworms natural resources

nonrenewable paper petroleum d plas pollution rese

sewer soil stone toxic waste windmills



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Waste in Our Oceans •





Leak from Oil Barge



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Shipwreck

(153)

NAME	Before You Read
V	Vaste Management Success Stories
	an you think of ways that your school or town could better manage waste? Write our ideas.
	plain the difference between the act of composting and the material compost. Ou may use a dictionary to help you.
	I in each blank with the correct word from the list below. You may use a
a)	ctionary to help you. disposable reduction compost natural facilities turn food waste into a source of fuel.
b)	If you lessen the amount of waste you throw away, you are practicing waste
c) d)	materials come from plants, animals, or the earth.
e) f)	Worms help turn plant waste into nutrient-rich Products that are used once and then thrown away are

The goal of sending nothing at all to a Answers will vary landfill or incinerator Answers will vary Answers will vary 127 a) Kovalam Composting is the act of breaking down organic waste. Compost is **b)** Westside School Answers will vary a nutrient-rich soil that is the product of c) Kovalam Answers will vary composting. **d)** Canada e) Westside School Answers will vary a) biogas f) Kovalam **b)** reduction c) zero waste e) compost Answers will vary f) disposable Answers will vary d) compost e) incinerator

f) pesticides

128

130

(131)

132





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Answers will vary

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