

3	TEACHER	GUIDE

#### 

## STUDENT HANDOUTS

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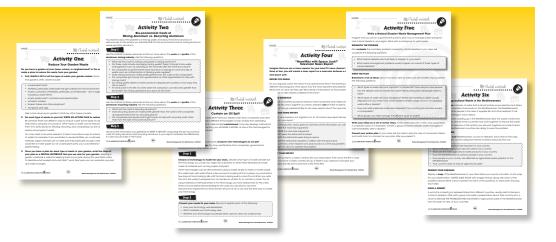
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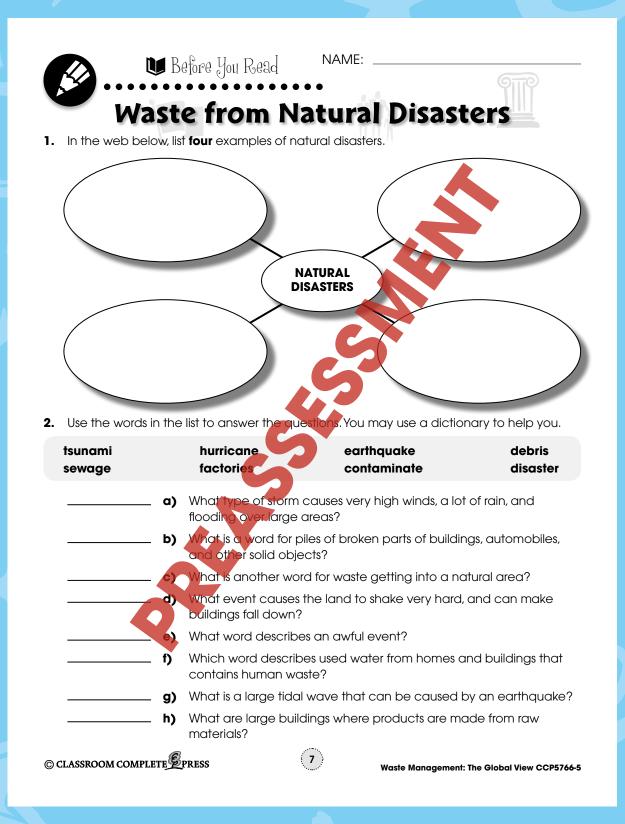
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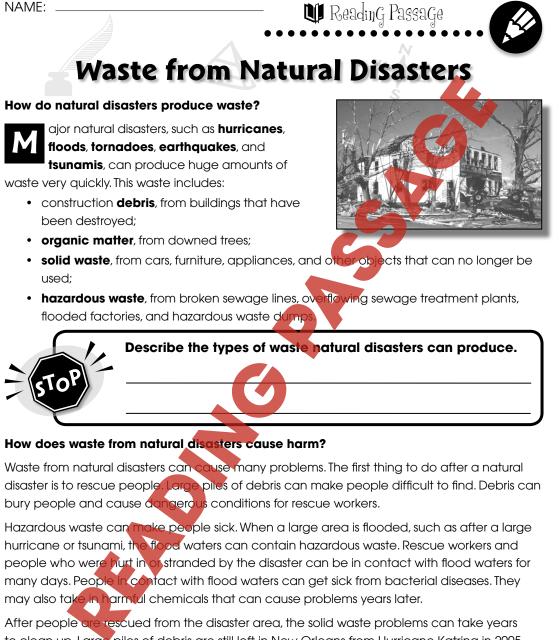






#### Waste Management: The Global View CCP5766-5



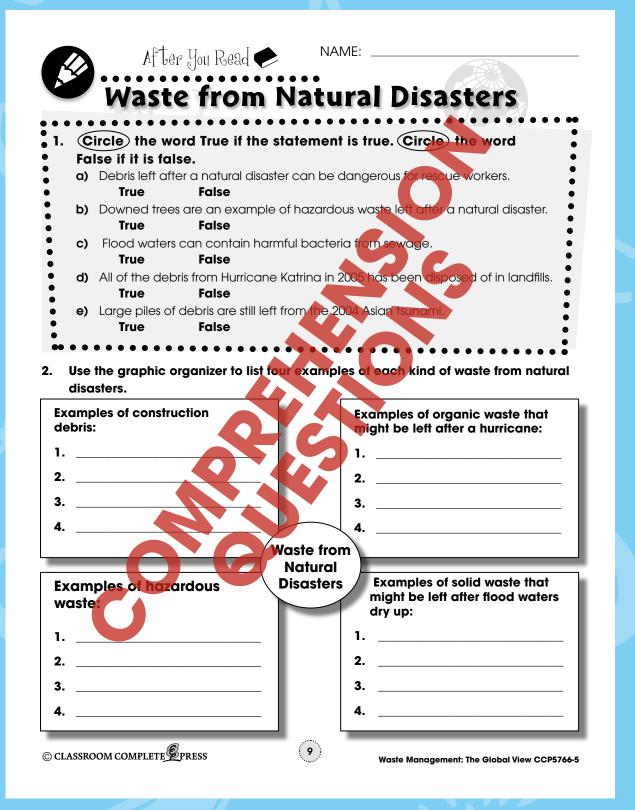


After people are rescued from the disaster area, the solid waste problems can take years to clean up. Large piles of debris are still left in New Orleans from Hurricane Katrina in 2005 and in areas of Asia hit by the tsunami in 2004. Toxic waste and oil spills can harm habitats all around a natural disaster, killing wildlife and **contaminating** drinking water.

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Waste Management: The Global View CCP5766-5





#### **Extension & Application**

5. Learn more about efforts to **clean up** after major natural disasters. Choose one large natural disaster, such as:

The 2005 Hurricane Katring

The 2004 Asian Tsunami

The 2005 Pakistani Earthquake

You may choose one of your own, but check with your teacher before beginning your research.

Using the Internet or library resources, find out how communities have been dealing with the waste problems left by the natural disaster that affected them. Make a chart like the one below, listing the main problems, what has been done to address the problems, and what still needs to be done.

Name of natural disaster: \_\_

#### \_ Date it occurred: \_\_\_

Waste Problem Coused by the Disaster	What has been done to fix the problem so far?	What still needs to be done to fix the problem?

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### **Biomass Product Fair**

In this activity, you and your classmates will learn about the many different products that can be made from unused plant parts on farms, or BIOMASS.

**FIRST,** use the Internet or library resources to research a list of **10 to 20** different products that can be made from biomass. Include fuels, building materials, gardening supplies, and everyday items.

**SECOND,** have each student in your class choose a product from the list to learn more about. Students may work alone or in teams.

Once you have choosen your product, research answers to the following questions:

- What types of agricultural waste are used to make the product?
- How is the product made?
- Do farmers make money selling their waste to the manufacturers of the product?
- What is the product used for?
- Can the product replace similar products made from nonrenewable resources?

If possible, try to get a sample of your product. If that is not possible, get photographs or advertisements.

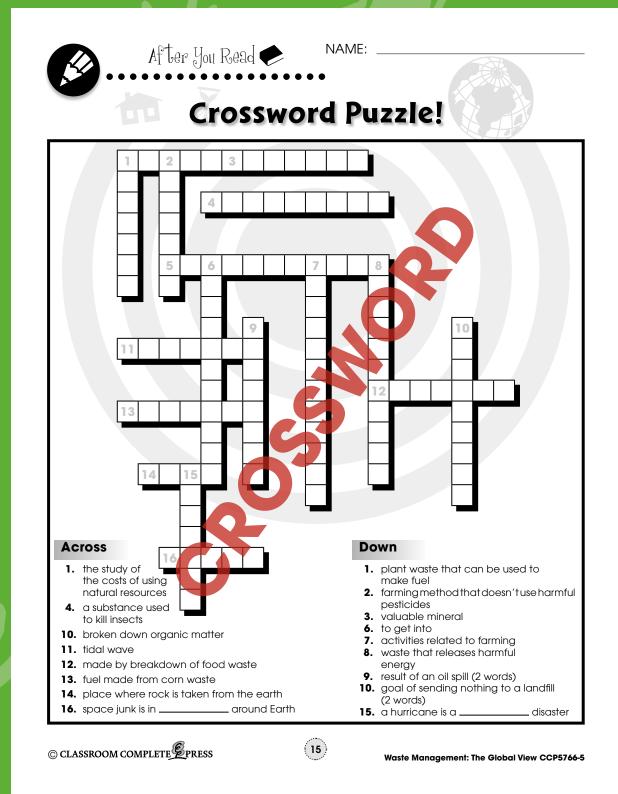
Make a **poster presentation** that answers all of the questions above and contains photographs of the product and the waste materials used to make it.

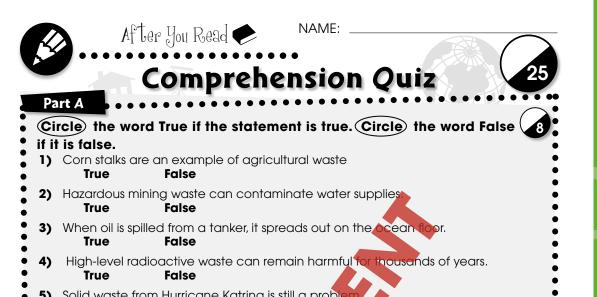
**THIRD,** set up a **Biomass Product Fair** in your classroom or common school area, such as the auditorium. Display the posters and products on tables, and have students stand neartheir displays to answer questions. Invite students, teachers, parents, and other members of your school community to walk through the Biomass Product Fair.

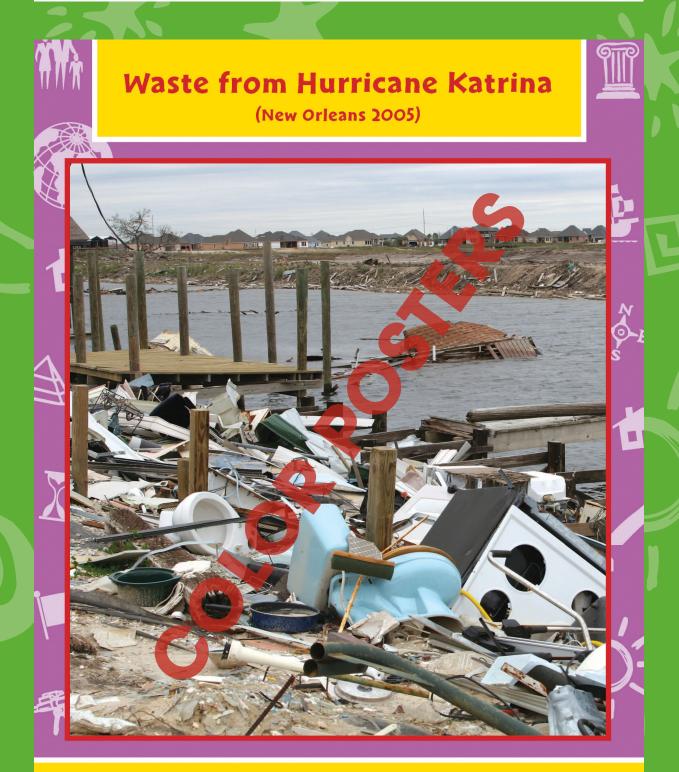
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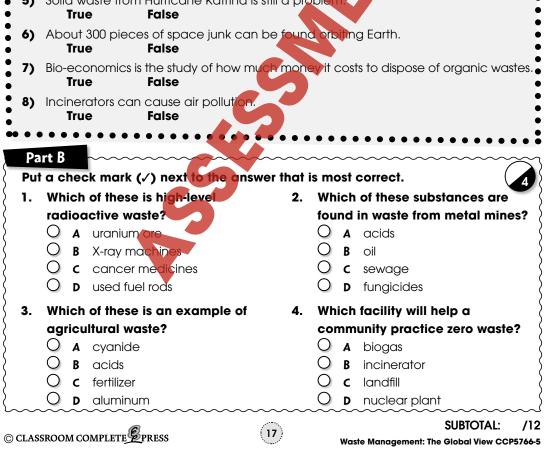
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Answers will vary

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Answers will vary

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Answers will vary

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# **ANSWER KEY**

