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# EACHER GUIDE

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## **STUDENT HANDOUTS**

•	Reading	Com	prehensior	l
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1. What Is Waste?
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3. Post-Consumer Waste
4. Packaging
5. Solid Waste Disposal <b>7</b>
6. Toxic Waste
7. Pollution
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## MINI POSTERS

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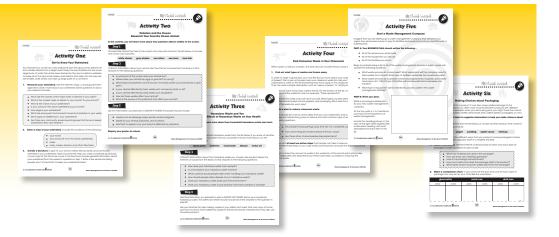
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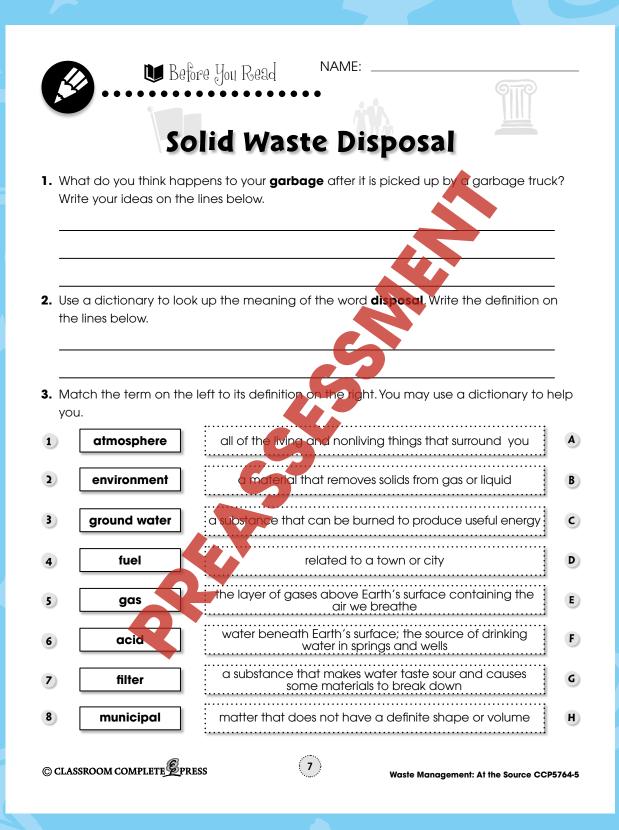
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#### Waste Management: At the Source CCP5764-5



NAME: \_\_\_

Solid Waste Disposal

id you ever think about what happens when you throw an object in the trash? You probably know that a trash collector empties your trash into a large truck. But where does it go? Most of the **solid wastes** produced in attes and towns go to solid waste **landfills**. Landfills are special facilities that are built to contain waste in the ground.

A smaller portion of the solid wastes produced in cities and towns go to solid waste incinerators. These are facilities where solid waste is burned at very high temperatures. Fewer solids are left after burning. Therefore, burning reduces or lessens, the amount of solid waste that must be buried.



#### How do landfills work?

There are different types of landfills. Waste from homes and schools goes to a *municipal* solid waste landfill. These landfills have strict government requirements to help prevent wastes from getting into the environment. The bottom and sides of the landfills have special liners that stop waste from getting into the soil or groundwater. Waste piles at

landfills are **compacted**, or pressed down, by large machines. Any liquid that seeps out of the waste is collected and treated to remove harmful substances. Scientists frequently test the soil and water around landfills to be sure no wastes are leaking into the environment. When waste breaks down in landfills, **methane** 

When waste breaks down in landfills, **methane gas** is produced. Methane gas can have harmful effects in the atmosphere. However, it can also be burned for fuel. Many newer landfills collect the methane gas and pipe it to locations where it is used as a fuel source.



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Waste Management: At the Source CCP5764-5

NAME: \_ After You Read 🌪 Solid Waste Disposal 1. Fill in each blank with the correct word from the list below. methane gas landfill incinerator **bioreactor** radioactive neutralizes microorganisms compacted is a facility in which solid waste is buried. **a)** A(n) **b)** Some solid waste is burned in a(n) In landfills, the breakdown of solid waste 🗖 , which can C)



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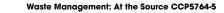
#### **Extension & Application**

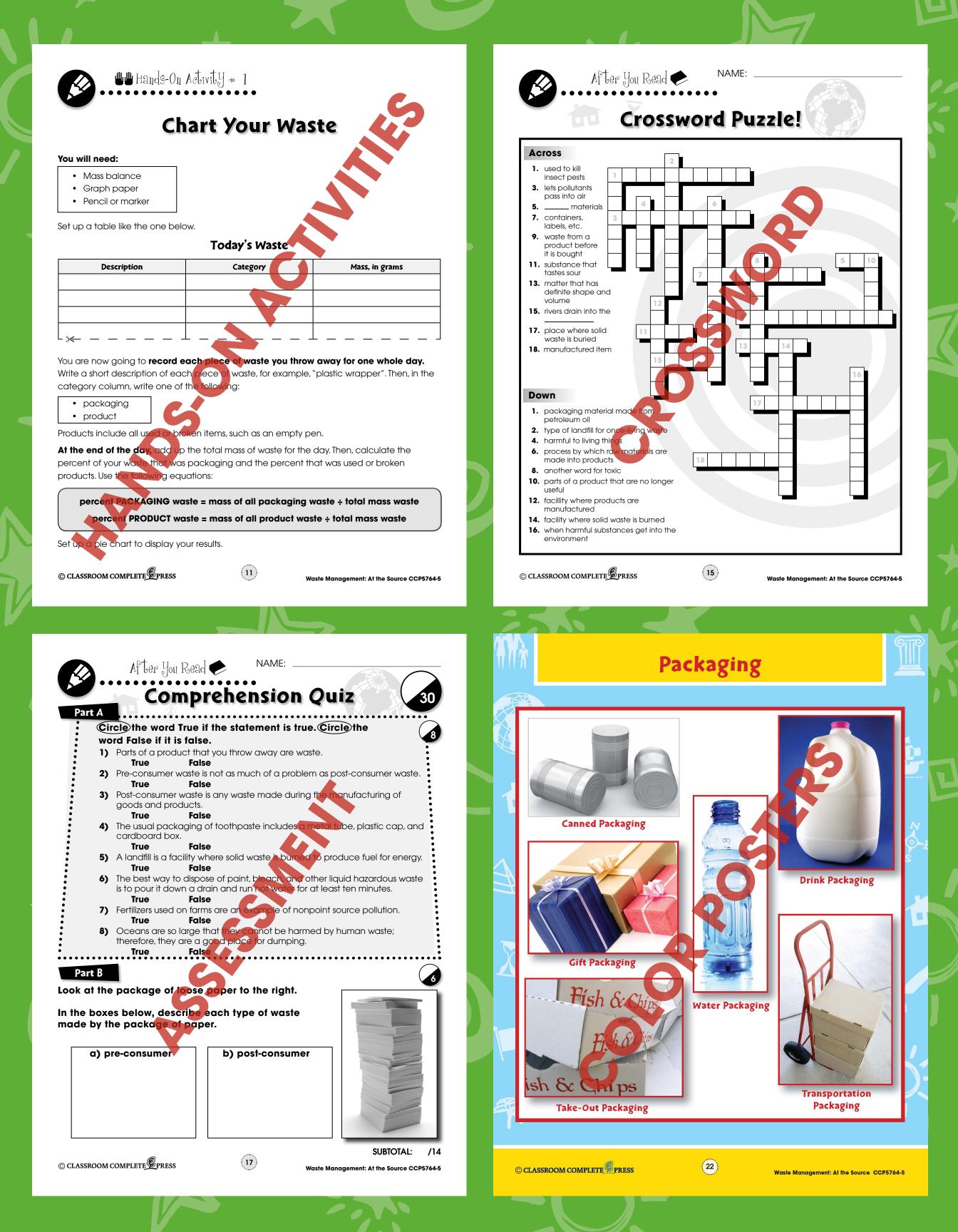
- 5. Make a poster showing a cross-section, or curaway view, of a landfill. A cross-section is a diagram that shows how something would look if you cut it in half down the middle. Be sure to show and label the following:
  - Inners that stop liquid waste from getting into ground water
  - the piles of trash
  - large machines that compact tree
  - methane gas collection pipes You may use library or Internet resources to help you.
- 6. Research your municipal landfill or incinerator. Look in the phone book or Internet to find your local waste management company. Call or look on their website to find out whether your trash goes to a landfill or incinerator. Learn more about the facility that takes your trash. Ask the following questions:

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- What happens to the trash when it first arrives at the facility?
- Is the trash sorted into different materials?
- What types of machines are used at the facility?
- What practices help stop waste from getting into the environment?

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NAME: After You Read C	*	
Solid Waste Disposal		
<ol> <li>Explain how fuel can be made in the following facilities:</li> <li>a) landfills:</li> </ol>	3.	Answers wi
	a) Methane gas is produced as solid	U
b) incinerators:	<ul> <li>wastes break down</li> <li>b) Burning trash can be used to generate</li> </ul>	
4. Explain why it is important for landfills to be lined.	electricity	
	So that liquids released from the waste do not enter the surrounding soil or ground water	Answers wil
Extension & Application		
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