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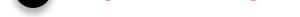
CHER GUIDE

•	Assessment Rubric	4
•	How Is Our Resource Organized?	5
•	Bloom's Taxonomy for Reading Comprehension	6
•	Vocabulary	6

STUDENT HANDOUTS

Reading Comprehension	
1. Agricultural Waste	
2. Waste from Mining	
3. Oil Spills	
4. Radioactive Waste	7
5. Waste from Natural Disasters	
6. Space Junk	
7. The Costs of Waste	
8. Waste Management Success Stories	
Hands-on Activities	12
Crossword	16
• Word Search	17
Comprehension Quiz	18





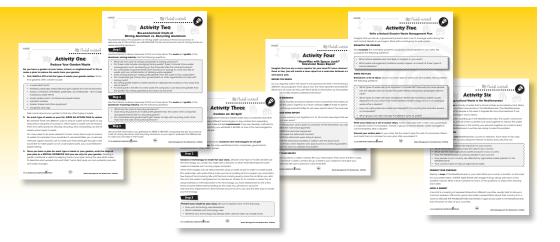
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	Radioa	••••	Before You R Waste	ead			
 Have you ever he might be? 	ard the word radioa	ctive? What	do you think the	meaning of this word			
2. Use a dictionary to The definition of nu		EAR. Write the	e definition on the I	ines below.			
 Fill in each blank v help you. X-rays 	CAT-scan	from the list	below. You may u syringe uranium	ise a dictionary to fuel rod			
a) A			ere waste is burie				
c) A	c) A places medicine into the body.						
e) A body.		can make a	picture of organs	and tissues inside the			
f) g) A			source of radioad				
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W Reading Passage NAME:

Radioactive Waste

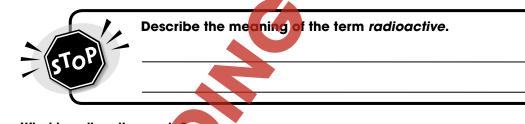
What are radioactive materials?

ou may have learned that all matter is made from tiny particles called **atoms**. The center of an atom is called a **nucleus** (plural *nuclei*). The nucleus contains even tinier particles. In some **radioactive** substances, the nuclei break down and release particles. The particles contain large amounts of energy, and can harm the tissues of living things.



People use radioactive materials for many different purposes. In medicine, radioactive materials are used in equipment for seeing inside the body, such as X-rays and

CAT-scans. Radioactive substances are also used to treat cancers. Radioactive substances are also used to produce large amounts of energy in nuclear power plants. This energy is used to make electricity to power cities and towns.



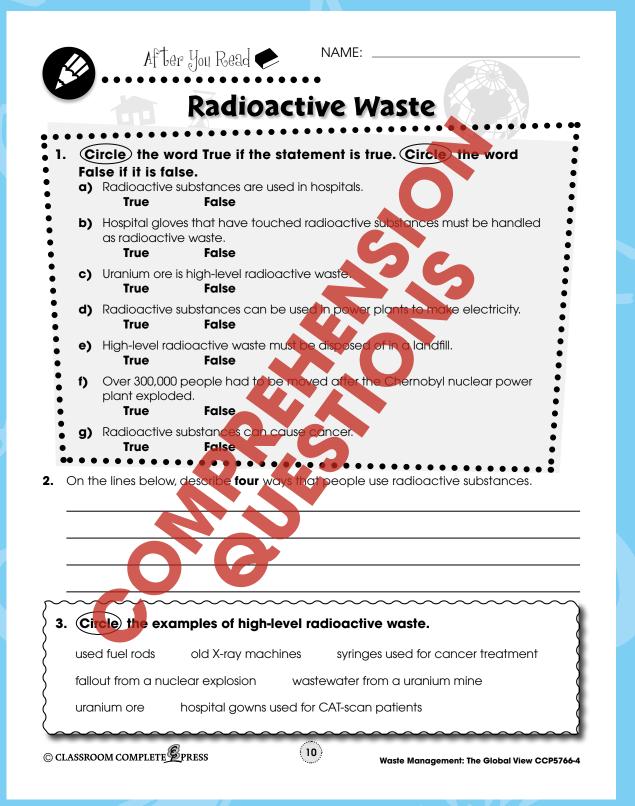
What is radioactive waste?
Radioactive waste comes from three main sources. First, radioactive minerals must be mined from the earth. These materials include ores such as uranium. Some of the leftover materials from the mining can be radioactive. Second, waste is made when radioactive substances are used in medicine and industry. The substances themselves can become waste after they are used. Materials that come into contact with radioactivity can also become radioactive. These materials are called *low-level* radioactive waste, and include things like hospital sheets, gloves, and syringes. The third source of radioactive waste is the radioactive fuel rods used in nuclear power plants. After a fuel rod is used for a period of time, it does not produce enough energy to make it useful for making electricity. However, the fuel rod is still very

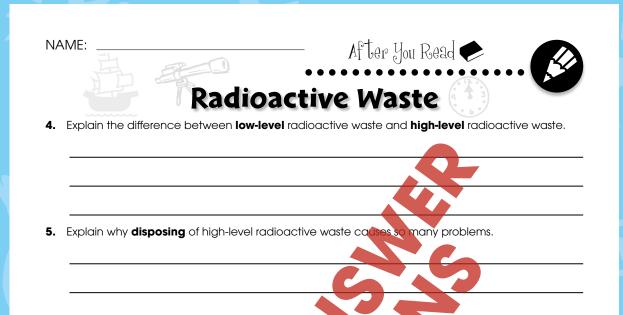
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radioactive. Waste fuel rods are called high-level radioactive waste.

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Extension & Application

6. Nuclear power plants were once though to be a good source of electricity, because they do not create any air pollution. However, disposing of fuel rods has become such a big problem, that many people think nuclear power plants are no longer a good solution.

Learn more about the problems of disposing of fuel rods in your country. Use the Internet and library resources to find answers to the following questions.

- Are there nuclear power plants in your country?
- How are the used fuel rods disposed of now?
- Does your country have any plans for permanent fuel rod disposal sites?
- What are the problems that your country faces in finding permanent fuel rod disposal sites?
- How do citizens in your country reel about planned fuel rod disposal sites?
- What are the problems in transporting used fuel rods from nuclear power plants to the disposal sites?

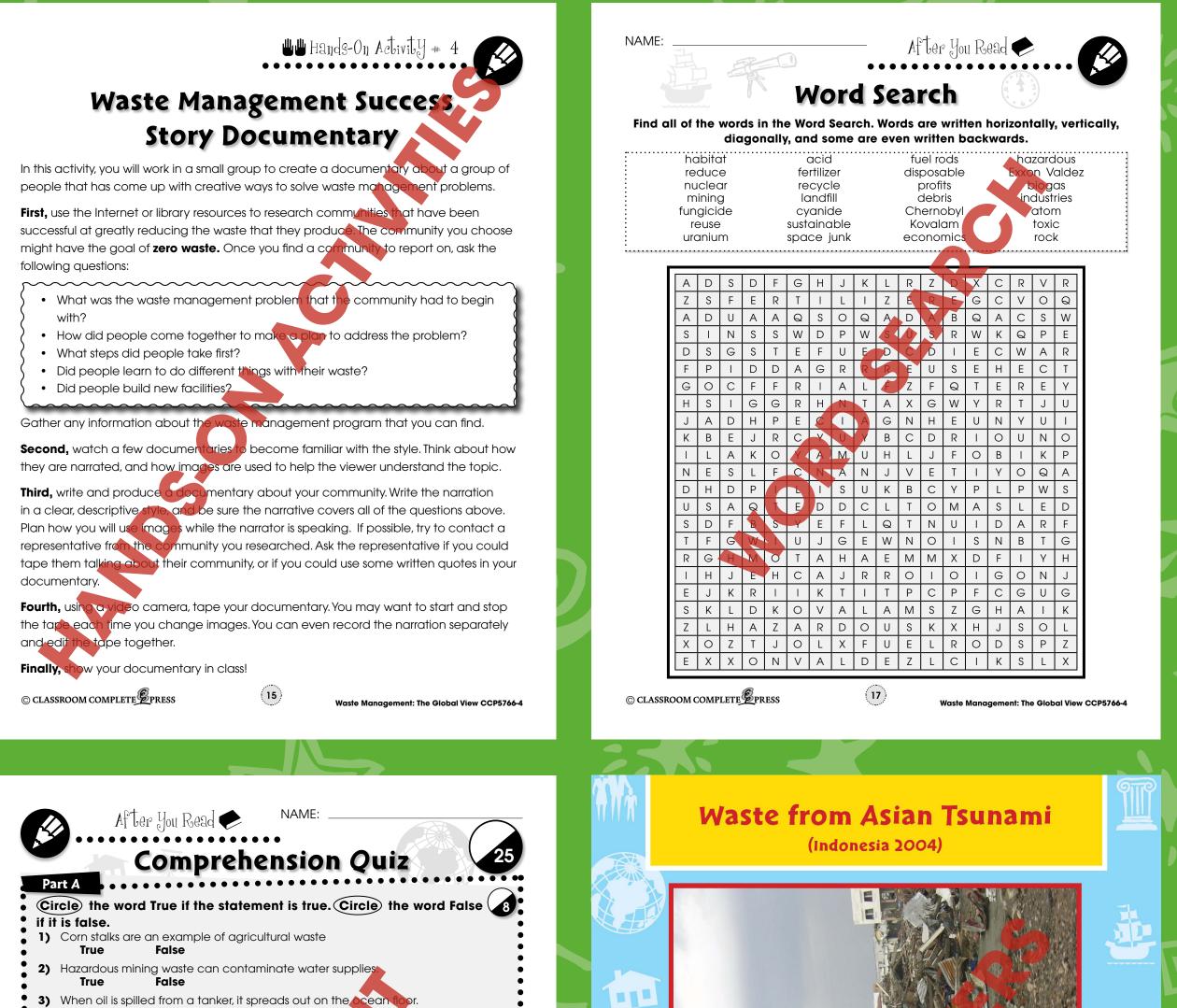
• What are the problems with protecting fuel rod disposal sites?

Now, WRITE AN OPINION PAPER about nuclear energy and fuel rod disposal. In an opinion paper, you state your **opinions** and ideas, and support them with **facts**. The introduction of the paper should outline the facts of used fuel rod disposal, the problems your country faces, and any plans your country has to solve these problems. Then, in the body of the paper, state your opinion about the best way your country can dispose of nuclear fuel rods. Support your opinion with evidence from your research. Finally, give a short summary of the issues, and of your opinion about whether nuclear energy is a good solution for providing electricity to growing societies.

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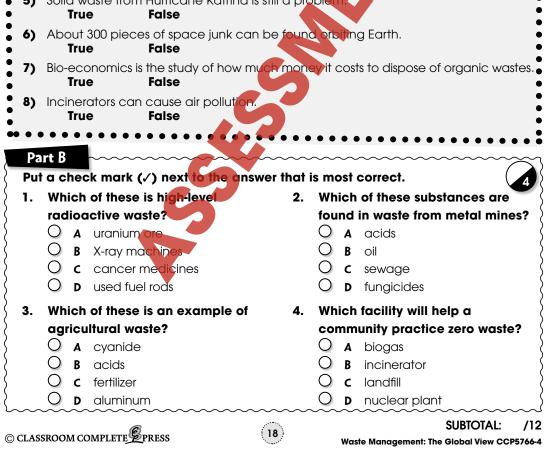


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True False
4) High-level radioactive waste can remain harmful for thousands of years.

- **True False**





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4. Explain the difference between low-level radioactive waste and high-level radioactive waste.

5. Explain why **disposing** of high-level radioactive waste causes so many problems.

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Low-level radioactive

waste breaks down faster.

5.

High-level radioactive

waste takes thousands: of years before it will no longer cause harm

to people.

6.

Answers will vary

