Skills Worksheet

# **Directed Reading A**

## Section: Fossil Fuels ENERGY RESOURCES

1. Natural resources that humans use to generate energy are called a. fossil fuels. b. petroleum. c. energy resources. d. hydrocarbons. 2. A nonrenewable energy resource formed from the remains of plants and animals that lived long ago is a a. fossil fuel. c. bio fuel. b. hydrogen fuel. d. clean fuel. 3. Give three examples of fossil fuels. 4. Why is it important to conserve fossil fuels? **TYPES OF FOSSIL FUELS** 5. All living things are made up of the element a. hydrogen. c. calcium. b. carbon. d. iron. 6. Most carbon in fossil fuels exists as hydrogen-carbon compounds called a. carbohydrates. b. hydrocarbons. c. petroleum distillates. d. black gold. 7. A liquid mixture of complex hydrocarbon compounds is a. natural gas. c. petroleum. b. coal. d. hydrogen.

? than 40% than 50% than 60% than 70%	rbons used as fuel is called c. petroleum. d. hydrogen. of natural gas? c. propane d. methane
? than 40% than 50% than 60% than 70% re of gaseous hydroca il gas.	rbons used as fuel is called c. petroleum. d. hydrogen. of natural gas? c. propane
l gas. he main component o	c. petroleum. d. hydrogen. of natural gas? c. propane
-	c. propane
al gas causes more air al gas is hard to burn. al gas leaks can cause	
terial is called	erground from partially decomposed c. petroleum.
	d. hydrogen. when it was the major source of energy in
	al gas is hard to burn. al gas leaks can cause al gas cannot be used fossil fuel formed und tterial is called al gas.

15. What is one major way coal is used today?

### HOW DO FOSSIL FUELS FORM?

16. How are all fossil fuels formed?

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17. Desc	ribe how microscopic sea organisms form petr	oleum and natural gas.	
18. Wha	t are permeable rocks?		
	t will happen to part of the remains of today's s now?	sea life millions of years	
Match th provided	e correct description with the correct term. Wr I.	ite the answer in the space	
2	0. brown, crumbly matter made of plant material, burned for heat or used as fuel	a. bituminous coal b. peat	
2	<ol> <li>pressure and heat applied to peat force out water and gases, creating coal that is about 70% carbon</li> </ol>	c. lignite d. anthracite	
2	<ol> <li>sediment and pressure force water and gases out of lignite, creating coal that is about 80% carbon</li> </ol>		
	3. the hardest type of coal, about 90% carbon		
24. Wha	t type of coal burns most cleanly?		

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#### WHERE ARE FOSSIL FUELS FOUND?

\_\_\_\_\_ 25. Approximately what fraction of the petroleum used by the United States is imported from other countries?

- a. one-fourth c. three-fourths
- b. one-half d. all

#### HOW DO WE OBTAIN FOSSIL FUELS?

\_\_\_\_\_ 26. How are petroleum and natural gas removed from Earth's crust?

- a. by drilling wells c. by strip mining
- b. by deep mining d. by surface mining

27. Give two names for the process by which soil and rock are stripped from Earth's surface to expose underlying coal.

#### **PROBLEMS WITH FOSSIL FUELS**

- 28. Rain, sleet, or snow that has a high concentration of acids, often because of air pollutants, is called \_\_\_\_\_\_.
- 29. What is one major environmental problem caused by coal mining?
- 30. What are two types of problems caused by producing, transporting, and using petroleum?
- 31. The photochemical haze that forms when sunlight acts on industrial pollutants and burning fuels is called \_\_\_\_\_\_
- 32. What are two reasons some large cities have serious smog problems?