Section 15.3 Energy Resources

(pages 462–466)

This section describes types of energy resources and ways to conserve them.

Reading Strategy (page 462)

Identifying Main Ideas As you read the section, write the main idea for each heading in the table. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

Heading	Main Idea
Nonrenewable energy resources	Nonrenewable energy resources include oil, natural gas, and coal. They exist in limited quantities.
Renewable energy resources	
Conserving energy resources	

Nonrenewable Energy Resources (page 462)

1. What are nonrenewable energy resources? _____

_____

2. List three examples of nonrenewable energy resources.

a. _____

b. _____

c. _____

3. Circle the letter of each resource that is considered to be a fossil fuel.

a. tree
b. oil
c. coal

4. Is the following sentence true or false? Although fossil fuels are evenly distributed throughout Earth, they only represent ten percent of total energy consumed. _____

Renewable Energy Resources (pages 463–464)

5. An energy resource that can be replaced in a reasonably short period of time is called a(n) _____ resource.

6. Circle the letter of each sentence that is true about renewable energy resources.

a. Wind and solar energy are both renewable energy resources.
b. Renewable energy resources are always more efficient than nonrenewable resources.
c. Renewable energy resources can be used to generate electricity and to heat homes.

7. Is the following sentence true or false? One disadvantage of hydroelectric power is that it is among the most expensive energy sources. _____

For numbers 8 through 13, match the letter of each renewable energy source to its description.

Description	Renewable Energy Sources
_____ **8.** Water pumped below ground is converted to steam.	a. hydroelectric
_____ **9.** The most likely raw material is hydrogen.	b. solar
_____ **10.** Mirrors concentrate sunlight to produce electricity.	c. geothermal
_____ **11.** Kinetic energy of moving air is converted into rotational energy of a turbine.	d. wind
_____ **12.** Energy is obtained from flowing water.	e. biomass
_____ **13.** Chemical energy stored in wood, peat, and agricultural waste can be converted into thermal energy.	f. nuclear fusion

14. Is the following sentence true or false? Hydrogen fuel cells generate electricity by combining hydrogen with oxygen. _____

Conserving Energy Resources (page 466)

15. Name two practical ways in which people can conserve energy. _____

_____

_____