

Chapter 15 Energy

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	
Renewable energy resources	
Conserving energy resources	

Nonrenewable Energy Resources (page 462)

1. What are nonrenewable energy resources? _____

2. List four examples of nonrenewable energy resources.
 - a. _____
 - b. _____
 - c. _____
 - d. _____
3. Circle the letter of each resource that is considered to be a fossil fuel.
 - a. tree
 - b. uranium
 - c. oil
 - d. 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. _____
5. What are some advantages and disadvantages of using fossil fuels as a source of energy? _____

Renewable Energy Resources (pages 463–464)

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

Chapter 15 Energy

7. 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.
 - d. Magma generates most renewable energy, either directly or indirectly.

8. Describe one energy conversion that takes place during the generation of hydroelectric power. _____

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

For numbers 10 through 15, match the letter of each renewable energy source to its description.

Description	Renewable Energy Sources
_____ 10. Water pumped below ground is converted to steam.	a. hydroelectric
_____ 11. The most likely raw material is hydrogen.	b. solar
_____ 12. Mirrors concentrate sunlight to produce electricity.	c. geothermal
_____ 13. Kinetic energy of moving air is converted into rotational energy of a turbine.	d. wind
_____ 14. Energy is obtained from flowing water.	e. biomass
_____ 15. Chemical energy stored in wood, peat, and agricultural waste can be converted into thermal energy.	f. nuclear fusion

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

Conserving Energy Resources (page 466)

17. What are two ways that energy resources can be conserved? _____

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

