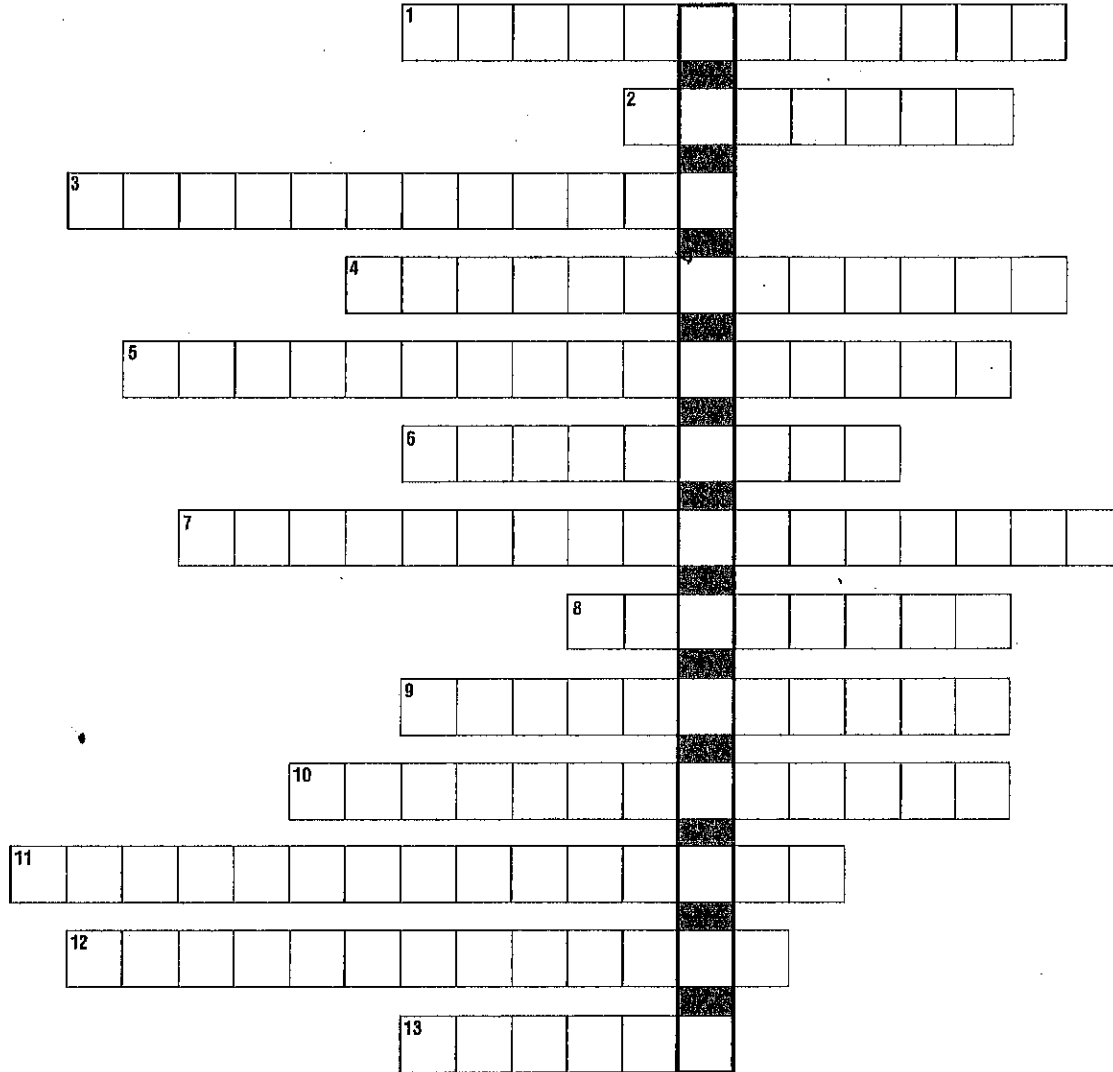


Chapter Review

Energy and Energy Resources

Part A. Vocabulary Review

Directions: Place the letters of the words defined on the spaces provided. When you are finished, the letters in the vertical box spell out the answer to question 14.



1. Energy sources that are in limited supply are _____ resources.
2. device with blades that uses kinetic energy to turn a generator
3. a device that directly converts solar energy into electricity
4. energy of hot objects
5. energy from separation of positive and negative charges
6. device that converts kinetic energy into electrical energy
7. resource that is constantly being replenished
8. Energy stored in the bonds between atoms is called _____ energy.
9. Energy sources other than fossil fuel are _____ resources.
10. energy of light
11. energy due to position
12. energy due to motion
13. the ability to cause change
14. What is the energy stored in the bonds between protons in the nucleus?

Chapter Review (continued)**Part B. Concept Review**

1. Number the steps for converting nuclear energy into electrical energy in the correct order in the blanks provided.

- _____ a. kinetic energy turns turbine
- _____ b. nuclear energy converted into thermal energy
- _____ c. kinetic energy produces electricity
- _____ d. thermal energy boils water
- _____ e. kinetic energy turns generator

Directions: Circle the term or phrase in parentheses that best completes each statement.

2. As the mass of an object moving at a given speed decreases, its kinetic energy (increases, decreases, remains the same).
3. As the velocity of a falling object increases, its potential energy (increases, decreases, remains the same).
4. A feather floating in the air has (kinetic energy, potential energy, both kinetic and potential energy).
5. Hydroelectric energy can generate electricity because of the initial (potential, radiant, kinetic) energy of the water.
6. A photovoltaic collector turns radiant energy into (thermal, chemical, electrical) energy.
7. If you put a book up on a shelf, you increase its (potential, kinetic, both potential and kinetic) energy.
8. Wind turbines convert (potential, kinetic, thermal) energy into electrical energy.

Directions: Answer the following questions on the lines provided.

9. What is a renewable resource? What is a nonrenewable resource?

10. When you drop a book on the floor, what happens to its original potential energy?
