

# Physical Science

## Chapter 4 Reading Quiz

Name: \_\_\_\_\_

1. Every change that occurs involves \_\_\_\_\_.
2. When you make toast in the morning you are using \_\_\_\_\_ energy.
3. Energy can be \_\_\_\_\_ and it can move from place to place.
4. What is the energy an object has because of its motion? \_\_\_\_\_
5. What type of energy is in a can of gasoline? \_\_\_\_\_
6. How do you calculate gravitational potential energy? \_\_\_\_\_
7. What is the importance of  $9.8 \text{ m/s}^2$ ? \_\_\_\_\_
8. An object's \_\_\_\_\_ increases as its height increases.
9. A \_\_\_\_\_ is a device that transforms electrical energy into light energy and thermal energy.
10. Some energy \_\_\_\_\_ are less obvious because they do not result in visible motion, sound, heat, or light.
11. At its highest point, the \_\_\_\_\_ has the maximum amount of gravitational potential energy.
12. \_\_\_\_\_ is due to the position and motion of an object or objects in the system.
13. Objects that can fall have \_\_\_\_\_.
14. Some energy leaves the \_\_\_\_\_, such as when living organisms release thermal energy to the environment.
15. The law of conservation of energy says that energy cannot be \_\_\_\_\_ or \_\_\_\_\_.
16. \_\_\_\_\_ and air resistance cause some of the mechanical energy of a swing to change to thermal energy.
17. What type of energy conversion takes place in the sun and other stars?  
\_\_\_\_\_
18. What type of energy is used by nuclear power plants to generate electrical energy? \_\_\_\_\_
19. Your body stores energy in the form of \_\_\_\_\_ and other chemical compounds.
20. How many calories are used in an hour by a medium sized person playing tennis?  
\_\_\_\_\_