

## SECTION

## Study Guide

## What is energy?

## Chapter

## 5

**Directions:** Label each situation with the type of energy it describes. Some situations may have more than one answer.

chemical  
potential

electrical  
radiant

kinetic  
thermal

nuclear

- \_\_\_\_\_ 1. sunshine
- \_\_\_\_\_ 2. a rolling ball gains more of this kind of energy when it moves faster
- \_\_\_\_\_ 3. the ocean affects climate because it has so much of this kind of energy
- \_\_\_\_\_ 4. a rock balanced on a ledge has this kind of energy
- \_\_\_\_\_ 5. energy in the nuclei of atoms
- \_\_\_\_\_ 6. energy stored in chemical bonds
- \_\_\_\_\_ 7. energy produced in your body's cells
- \_\_\_\_\_ 8. energy that operates a toaster
- \_\_\_\_\_ 9. energy emitted by a toaster
- \_\_\_\_\_ 10. energy emitted by a lightbulb
- \_\_\_\_\_ 11. as objects become hotter, they have more of this type of energy
- \_\_\_\_\_ 12. three kinds of energy a match can help you get from firewood
- \_\_\_\_\_ 13. energy of moving objects
- \_\_\_\_\_ 14. energy of position
- \_\_\_\_\_ 15. energy stored in gasoline

**Directions:** List two types of energy that depend on the mass of an object.

16. \_\_\_\_\_
17. \_\_\_\_\_

**Directions:** State the type of energy that is carried by light.

18. \_\_\_\_\_

## SECTION



## Reinforcement

## What is energy?

**Directions:** Answer the following questions on the lines provided.

1. What is energy?

\_\_\_\_\_

2. How can you tell when something has energy?

\_\_\_\_\_

**Directions:** Fill in the following table with what kind of energy each of the examples contains.

Example	Type of energy
3. a flying bird	
4. a burning candle	
5. a battery	
6. a hamburger	
7. a book on a shelf	
8. a green plant	
9. a beam of sunlight	
10. a piece of radioactive metal	
11. a cup of hot cocoa	

**Directions:** Fill in the blanks with the terms that best complete the statements.

- \_\_\_\_\_ energy is the energy of motion.
- A balloon floating in the air has more \_\_\_\_\_ energy than a boulder at the top of a cliff.
- When you pick up a book, you are \_\_\_\_\_ energy from your hands to the book.
- The faster an object moves, the \_\_\_\_\_ its kinetic energy.
- A scooter moving at 10 km/h has \_\_\_\_\_ kinetic energy than a motorcycle moving at the same speed.
- \_\_\_\_\_ is energy stored due to an object's position.
- A bowling ball sitting on a shelf has \_\_\_\_\_ potential energy than a basketball on the same shelf.
- A sock lying on a dresser has \_\_\_\_\_ potential energy than a skateboard on the floor.