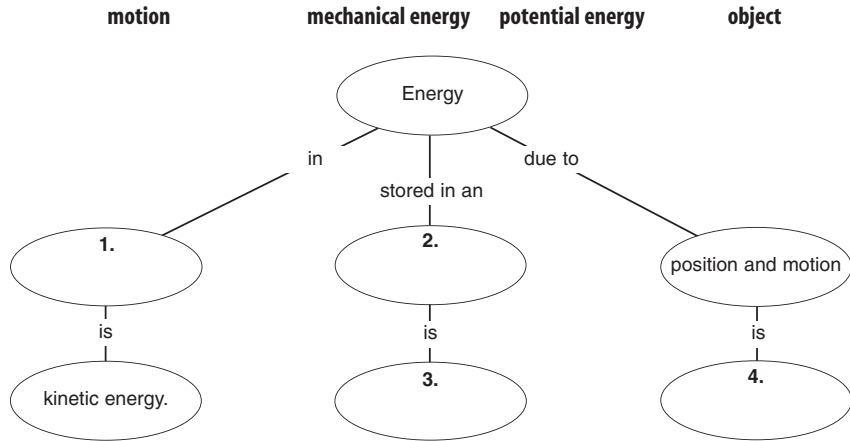


**Directed Reading for** **Overview**  
**Content Mastery** **Energy**

**Directions:** Complete the concept map using the terms in the list below.



**Directions:** Three forms of potential energy are gravitational, chemical, and elastic. Write the correct form in the spaces beside the items below. Note that one item has two forms of potential energy.

- \_\_\_\_\_ 5. chocolate chip cookie
- \_\_\_\_\_ 6. pogo stick on impact
- \_\_\_\_\_ 7. gasoline
- \_\_\_\_\_ 8. bicycle at the top of a hill
- \_\_\_\_\_ 9. stretched rubber band
- \_\_\_\_\_ 10. apple in a tree

**Directed Reading for** **Section 1** ■ **The Nature of Energy**  
**Content Mastery**

**Directions:** Draw a line from each type of energy on the left to the example of this type of energy on the right.

- |                                   |  |
|-----------------------------------|--|
| 1. kinetic energy                 | energy that is stored                        |
| 2. chemical potential energy      | energy stored in a stretched spring          |
| 3. gravitational potential energy | energy of a spinning bicycle wheel           |
| 4. elastic potential energy       | energy stored in food                        |
| 5. potential energy               | energy stored in a boulder on a mountainside |

**Directions:** Use these words to fill in the blanks below. Words may be used more than once.

- |                |             |              |                  |
|----------------|-------------|--------------|------------------|
| <b>energy</b>  | <b>more</b> | <b>less</b>  | <b>potential</b> |
| <b>kinetic</b> |             | <b>joule</b> | <b>chemical</b>  |
6. Two baseballs have the same mass. The ball that is closer to the ground has \_\_\_\_\_ gravitational potential energy than the other ball does.
  7. Two trucks have the same velocity but different mass. The truck with the greater mass has \_\_\_\_\_ kinetic energy than the other truck does.
  8. \_\_\_\_\_ is the ability to cause change.
  9. A \_\_\_\_\_ is a unit of measure of all forms of energy.
  10. When an object falls, some of its \_\_\_\_\_ energy changes to \_\_\_\_\_ energy.
  11. The \_\_\_\_\_ energy of an object depends on its mass and weight.
  12. The energy of food and other fuels is \_\_\_\_\_ potential energy.

