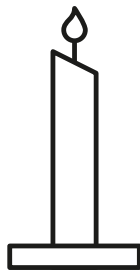


The Nature of Matter ▪ *Reading/Notetaking Guide*

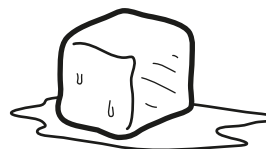
Energy and Matter *(continued)*

3. Classify the following as an endothermic or exothermic change.

a.



b.



4. What is chemical energy?

5. Circle the letter of the best description of electromagnetic energy.

- a. moves electrons
- b. travels through space as waves
- c. forms chemical bonds
- d. gives off heat

6. Give an example of how electromagnetic energy can cause changes in matter.

7. The energy of electrically charged particles moving from one place to another is _____ energy.

8. In electrolysis, electrons move between two metal strips called _____.

Transforming Energy (p. 77)

9. Circle the letter of each kind of energy released when fuel is burned.

- a. chemical energy
- b. thermal energy
- c. electrical energy
- d. electromagnetic energy

10. Is the following sentence true or false? In a chemical change, other forms of energy cannot be changed to chemical energy.

11. During photosynthesis, plants transform _____ energy from the sun to _____ energy.