

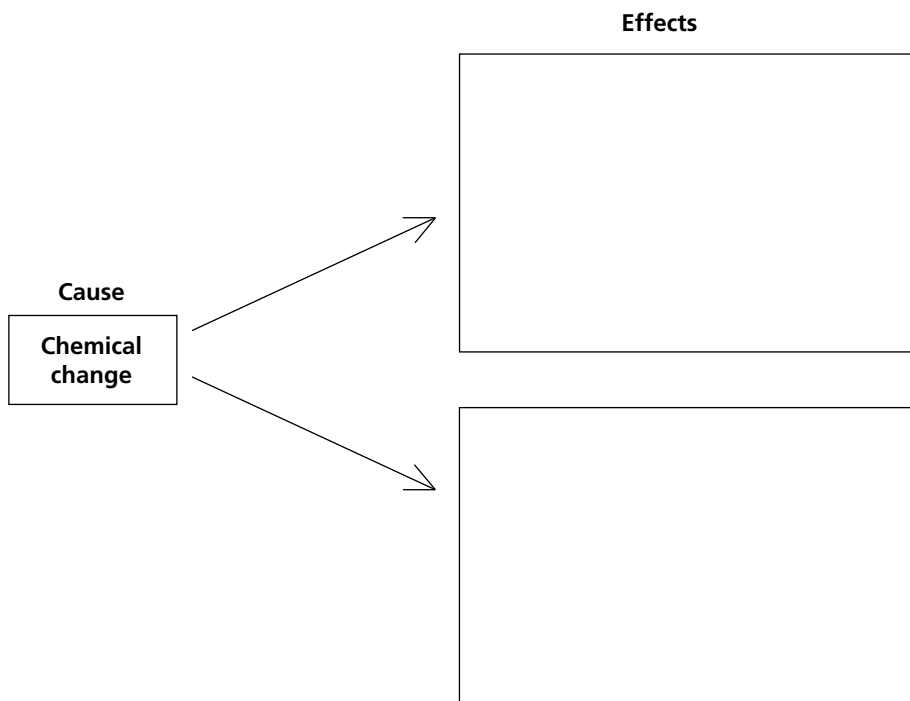
Introduction to Matter ▪ *Guided Reading and Study*

Changes in Matter

This section describes physical and chemical changes in matter. It also explains how changes in matter are related to changes in energy.

Use Target Reading Skills

As you read, identify two effects caused by a chemical change. Then, complete the graphic organizer.



Physical Change

1. What is a physical change?

2. Is the following sentence true or false? A substance that undergoes a physical change is a different substance with different properties after the change. _____
3. Circle the letter of each example of a physical change.
- a. dissolving
 - b. burning
 - c. changing from a solid to a liquid
 - d. chopping

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Changes in Matter *(continued)*

Chemical Change

4. What is a chemical change?

5. How does a chemical change differ from a physical change?

6. Circle the letter of each example of a chemical change.

- a. distillation
- b. filtration
- c. oxidation
- d. electrolysis

7. The fact that matter is not created or destroyed in any change in matter is described by the _____.

Matter and Thermal Energy

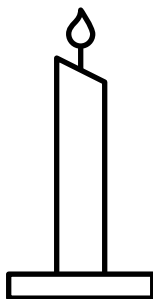
8. The ability to do work is called _____.

9. Is the following sentence true or false? Every chemical or physical change in matter includes a change in energy.

10. How does temperature differ from thermal energy?

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

a.



b.

