

How Does Matter React Chemically?

Lesson Concept

Physical changes do not result in the formation of new substances. However, new substances are formed during chemical changes. Physical and chemical properties can be used to identify substances and to separate mixtures. Matter is neither produced nor destroyed during physical and chemical reactions.

Vocabulary

reactivity (E23)

combustibility (E24)

Answer each question with one or more complete sentences.

1. What is the difference between a physical change and a chemical change?

2. If you had a mixture of two substances and had your choice of using a physical change or a chemical change to separate them, which would you prefer?

Explain.

3. What is the relationship between the chemical properties of a substance and the chemical changes of a substance?

Identify each of the following as a physical or chemical change by writing *physical* or *chemical* on the line.

4. a snow bank shrinking on a cold day

5. forming a bar of gold into wire

6. bleaching a sheet and pillowcase
