

Assessment

Quiz

23

Section: Changes of Matter

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____ 1. Which property of a substance is *not* affected by physical changes?
a. reactivity b. size c. shape d. position
- _____ 2. The different substances in a mixture
a. keep their properties. c. form new molecules.
b. combine chemically. d. cannot be separated.
- _____ 3. Which of the following is *not* a potential sign of chemical change?
a. change in odor c. change in color
b. fizzing d. boiling
- _____ 4. How can a chemical change be reversed?
a. by chemical changes
b. by physical changes
c. by both chemical and physical changes.
d. None of the above
- _____ 5. Which of the following causes a chemical change?
a. moving b. shattering c. burning d. melting
- _____ 6. Which of the following results in a mixture?
a. baking a cake c. dissolving salt
b. burning a log d. digesting food
- _____ 7. A chemical change occurs whenever
a. substances are mixed. c. hot objects melt.
b. objects change shape. d. new substances form.
- _____ 8. Which tool is best for separating a mixture of sand and water?
a. tweezers b. magnet c. centrifuge d. filter
- _____ 9. Which of the following is a physical change?
a. dissolving c. bending
b. evaporating d. All of the above
- _____ 10. Chemical changes can affect physical and chemical properties whereas physical changes can affect
a. chemical properties.
b. physical properties.
c. both chemical and physical properties.
d. None of the above

Concept Review

Section: Changes of Matter

1. **Categorize** each of the following examples as a chemical, *C*, or physical, *P* change.

_____ a. bending a metal rod

_____ d. painting wood

_____ b. burning wood

_____ e. cooking

_____ c. breaking glass

_____ f. burning propane

2. **Explain** why dissolving is a physical change.

3. **Explain** how a chemical change occurs when bread is baked.

4. **Compare** physical changes and chemical changes.

5. **List** four ways to detect that a chemical change has occurred.
