

## Assessment

**Matter and Change****Section Quiz: Chemistry Is a Physical Science**

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

- \_\_\_\_\_ 1. The study of the composition, structure, and properties of matter; the processes that matter undergoes; and the energy changes that accompany those processes best describes the science of
- biology.
  - physics.
  - astronomy.
  - chemistry.
- \_\_\_\_\_ 2. The branch of chemistry that involves the study of substances and processes occurring in living things is called
- biochemistry.
  - organic chemistry.
  - physical chemistry.
  - theoretical chemistry.
- \_\_\_\_\_ 3. The branch of chemistry that deals with substances containing carbon is called
- biochemistry.
  - organic chemistry.
  - physical chemistry.
  - analytical chemistry.
- \_\_\_\_\_ 4. Using mathematical models and computer models to understand a chemical principle is an example of
- biochemistry.
  - physical chemistry.
  - analytical chemistry.
  - theoretical chemistry.
- \_\_\_\_\_ 5. A team of scientists is working with living cells to determine how a certain enzyme functions within the cells. They are most likely working in the field of
- biochemistry.
  - physical chemistry.
  - inorganic chemistry.
  - theoretical chemistry.

**Section Quiz** *continued*

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- \_\_\_\_\_ 6. Two chemistry students are investigating the properties of quartz crystals. They are most likely studying in the field of
- a. biochemistry.
  - b. physical chemistry.
  - c. organic chemistry.
  - d. inorganic chemistry.
- \_\_\_\_\_ 7. The definition of a chemical is
- a. *a toxic substance made in a laboratory.*
  - b. *an unnatural material added to foods.*
  - c. *any substance that has a definite composition.*
  - d. *anything that has mass and takes up space.*
- \_\_\_\_\_ 8. The goal of basic research is to
- a. find a solution to a particular problem.
  - b. produce new chemicals.
  - c. increase knowledge.
  - d. discover new technologies.
- \_\_\_\_\_ 9. A scientist is working on developing refrigerants that do not release chemicals that destroy the ozone layer. This is best described as an example of
- a. basic research.
  - b. applied research.
  - c. technological development.
  - d. biochemistry.
- \_\_\_\_\_ 10. Technological applications often
- a. occur by accident.
  - b. degrade our quality of life.
  - c. lag far behind basic and applied research.
  - d. have little effect on our lives.