Section 1.1 What Is Science? (pages 2–6)
This section describes the characteristics of science and technology. It also discusses the big ideas of physical science.

Reading Strategy (page 2)
Previewing Skim the section to find out what the main branches of natural science are. Complete the concept map based on what you have learned. For more information on this Reading Strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of your textbook.

Natural Science

- Physical
- Earth and space
- Life

The study of living things

Science From Curiosity (pages 2–3)
1. Define science. _____________________________

2. What prompts the questions that lead to scientific discovery? Circle the correct answer.
   - the library
   - your teacher
   - curiosity

3. Is the following sentence true or false? The results of every scientific experiment are quantitative. _________________

Science and Technology (page 3)
4. Is the following sentence true or false? The use of knowledge to solve practical problems is known as curiosity. _________________

Branches of Science (page 4)
5. The two main areas of physical science are chemistry and ____________.
6. Circle the letters of each branch of natural science.
   - a. physical science
   - b. social science
   - c. Earth and space science
7. Circle the letter of each sentence that is true about the field of chemistry.
   a. Chemists study reactions involving matter.
   b. Chemists study the composition of matter.
   c. Chemists study the structure of matter.

8. What is the study of matter, energy, and the interactions between the two through forces and motion known as? Circle the correct answer.
   - physics
   - chemistry
   - earth science

9. Is the following sentence true or false? The foundation of space science is astronomy. __________

10. Scientists who study the origin and behavior of living things are called biologists, and the study of living things is known as __________.

The Big Ideas of Physical Science (pages 5–6)

11. Is the following sentence true or false? All of the important rules of nature have already been discovered. __________

12. The two characteristics of matter are mass and __________.

13. What are the basic building blocks of matter called? Circle the correct answer.
   - atoms
   - molecules
   - protons

14. Is the following sentence true or false? A force causes a change in time. __________

15. Define kinetic energy. __________

16. Two general types of energy are kinetic energy and __________ energy.

Science and Your Perspective (page 6)

17. Is the following sentence true or false? The scientific facts of today will not change in the future. __________