Chapter 1 The Science of Biology

Section Review 1-1

Reviewing Key Concepts

Completion On the lines provided, complete the following sentences.

- 1. Science investigates only the _____
- **2.** ______ involves using one or more of the senses to gather information.
- 3. An interpretation based on prior knowledge and experience is a(an)
- **4.** A possible answer to a scientific question that can be tested is a

Short Answer *On the lines provided, answer the following questions.*

- **5.** Explain the role of prior knowledge in making inferences.
- **6**. Explain how observation, interpretation, and explanation are important to the study of science.

Reviewing Key Skills

- **7. Comparing and Contrasting** Explain the difference between qualitative and quantitative observations. Give an example of each one.
- **8. Applying Concepts** A student sits down at a computer and presses the power button. The computer does not turn on. What is a logical explanation as to why the computer does not work? How would the student test that idea?
- **9. Comparing and Contrasting** What is the difference between observation and inference?
- **10. Evaluating** A section of land is devoid of plants. A student stated the following hypothesis: Plants do not grow here because of lack of sunlight. Is this a valid hypothesis? Explain your answer.