Name _____

Date Class

What Is Science?
 Review and Reinforce

Scientific Inquiry

Understanding Main Ideas

Answer the following questions on a separate sheet of paper.

- **1.** What is a scientific question?
- 2. What makes a hypothesis testable?
- 3. Why is it important to control variables in an experiment?
- **4.** When you begin an experiment, why should you create a table to record your data?
- 5. Why is there no set path that a scientific inquiry must follow?

Building Vocabulary

Fill in the blank to complete each statement.

_____•

- **6.** A(n) ______ is a possible explanation for a set of observations or answer to a scientific question.
- 7. Factors that can change in an experiment are called
- **8.** The sharing of ideas and experimental findings with others through writing and speaking is called ______.
- **9.** A scientific _______ is a statement that describes what scientists expect to happen every time under a particular set of conditions.
- **10.** Facts, figures, and other evidence gathered through observations are called ______.
- **11.** The factor that may change in response to the manipulated variable is called the ______.
- 12. An experiment in which only one variable is manipulated at a time is called a(n) ______ experiment.
 13. The process of ______ refers to the diverse ways in
- **13.** The process of _______ refers to the diverse ways in which scientists study the natural world and propose explanations based on the evidence they gather.
- **14.** A scientific _______ is a well-tested explanation for a wide range of observations or experimental results.
- **15.** A(n) ______ is a statement that describes how to measure a particular variable or define a particular term.
- **16.** The one variable that is purposely changed to test a hypothesis is called the _____.