Name _____ Date _____ Class _____

What Is Science?

Understanding Main Ideas

1. What are three skills scientists use to learn about the world?

_____ _____ _____

2. What are inferences based on?

_____ _____

Answer the following questions on a separate sheet of paper.

3. What is science?

4. What makes a hypothesis testable?

5. Why is it important to control variables in an experiment?

6. When you begin an experiment, why should you create a table to record your data?

7. Why is there no set path that a scientific inquiry must follow?

Building Vocabulary

Fill in the blank to complete each statement.

8. A(n) _____ is a possible explanation for a set of observations or answer to a scientific question.

9. Factors that can change in an experiment are called _____.

10. A scientific _____ is a statement that describes what scientists expect to happen every time under a particular set of conditions.

11. Facts, figures, and other evidence gathered through observations are called _____.

12. The factor that may change in response to the manipulated variable is called the _____.

13. An experiment in which only one variable is manipulated at a time is called a(n) _____ experiment.

14. A scientific _____ is a well-tested explanation for a wide range of observations or experimental results.

15. The one variable that is purposely changed to test a hypothesis is called the _____.