Name_____ Class_____ Date_____

Chapter 1 The Science of Biology

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6. What is an inference?

Explaining and Interpreting Evidence (page 5)

7. What is a hypothesis? _____

- 8. In science, a hypothesis is useful only if it can be _____
- 9. Is the following sentence true or false? A hypothesis should be stated in such a way that it can never be proved wrong.
- 10. What are three ways from which hypotheses may arise?
 - a. _____ b. _____
 - c.
- **11.** Circle the letter of each of the following that may be an outcome of testing a hypothesis.
 - **a.** The hypothesis is partly true but needs to be revised.
 - **b.** The hypothesis is wrong.
 - **c.** The hypothesis is supported.
 - **d.** The hypothesis is of no value.

Science as a Way of Knowing (page 6)

12. What do scientists assume about the universe?

13. What are some qualities that are desirable in a scientist? _____

Science and Human Values (page 7)

14. Is the following sentence true or false? A community must use its shared values to make decisions about scientific issues.