

INTRODUCTION

REVIEW AND REINFORCE

Introduction to Life Science

◆ Understanding Main Ideas

Choose the answer that best completes the sentence.

- _____ **1.** _____ is an organized way of learning about the natural world.
a. Data **b.** Science
c. Scientific law **d.** Measurement
- _____ **2.** A(n) _____ states an idea in a way that can be tested.
a. hypothesis **b.** experiment
c. responding variable **d.** biologist
- _____ **3.** When scientists make observations, they always
a. develop a theory. **b.** make a hypothesis.
c. prove a hypothesis. **d.** use their senses.
- _____ **4.** In a controlled experiment, a scientist changes one variable in order to
a. see how a responding variable changes.
b. develop a hypothesis.
c. communicate results.
d. revise a theory.
- _____ **5.** Data from an experiment are analyzed to see if they
a. form conclusions. **b.** control the experiment.
c. support the hypothesis. **d.** reverse the variables.

◆ Building Vocabulary

Match each term with its definition by writing the letter of the correct definition on the line beside the term.

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| _____ 6. controlled experiment | a. the variable changed by a scientist in an experiment |
| _____ 7. variables | b. a possible explanation for a scientific question |
| _____ 8. scientific inquiry | c. an investigation in which all of the variables remain the same except one |
| _____ 9. hypothesis | d. factors that can change in an experiment |
| _____ 10. manipulated variable | e. facts, figures, and other evidence |
| _____ 11. scientific theory | f. an interpretation of an observation |
| _____ 12. inference | g. the various methods of investigating and answering scientific questions |
| _____ 13. data | h. a well-tested idea that explains many observations |