

Skills Worksheet

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Test Prep Pretest

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- _____ 1. Biologists have found ways to use leftover potato particles
a. to build huts. c. to make concrete.
b. to feed tigers. d. to fuel power plants.
- _____ 2. Control and experimental groups are identical except for the
a. dependent variable. c. independent variable.
b. group size. d. conclusions.
- _____ 3. A collection of related hypotheses that have been tested many times is called a(n)
a. prediction. c. theory.
b. observation. d. insight.
- _____ 4. What properties do all living things exhibit?
a. cellular organization, metabolism, homeostasis, reproduction, and heredity
b. multicellular organization, metabolism, homeostasis, reproduction, and heredity
c. photosynthesis, metabolism, homeostasis, reproduction, and heredity
d. cellular organization, photosynthesis, homeostasis, reproduction, and heredity
- _____ 5. Almost all lung cancers can be prevented by
a. changing your diet.
b. eliminating the use of tobacco.
c. staying out of the sun.
d. exercising regularly.

In the space provided, write the letter of the description that best matches the term or phrase.

- _____ 6. scientific processes
a. independent variable in John Harte's experiment
b. collecting observations, asking questions, forming hypotheses and making predictions, confirming predictions, and drawing conclusions.
c. an explanation that might be true
d. living things maintain relatively stable internal conditions
- _____ 7. homeostasis
_____ 8. pH level
e. replacing a defective gene with a normal gene
- _____ 9. gene therapy
_____ 10. hypothesis

Name

Class

Date

Test Prep Pretest *continued*

- 1 Describe interdependence in a biological community.
- 2 What is the role of metabolism in life?
- 3 Briefly describe how scientific research has contributed to the efforts to increase world food production.
- 4 Briefly describe recent scientific advances in finding a vaccine for HIV.
- 5 If the results of an experiment do not support the hypothesis that the experiment was designed to test, was the experiment a waste of time? Explain.