

Assessment

# Chapter Test

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## Biology and You

Circle the term that best completes each sentence.

1. Being skeptical and being open to change are parts of (homeostasis, control groups, or scientific thought).
2. In science, (universal laws, hypotheses, or predictions) are truths that are valid everywhere in the universe.
3. The system of moral principles and values needed for scientific investigations is called (theories, ethics, or observations).

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

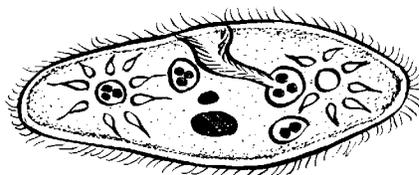
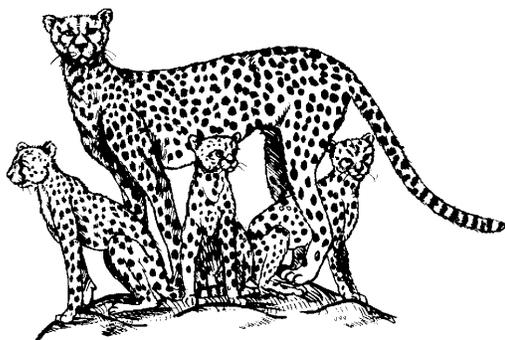
- \_\_\_\_\_ 4. Which is a reason to study science?  
a. to help take better care of your health  
b. to be a wise consumer  
c. Both (a) and (b)
- \_\_\_\_\_ 5. A wide range of observations is explained by a  
a. theory.  
b. question.  
c. controlled experiment.
- \_\_\_\_\_ 6. During an experiment, the group that does not change is the  
a. organism.  
b. control.  
c. heredity.
- \_\_\_\_\_ 7. A specific, testable prediction for a limited set of conditions is a  
a. theory.  
b. universal law.  
c. hypothesis.

Chapter Test *continued*

Using the word bank below, fill in each blank provided.

biology                      instructions                      microscope  
 evolution                      metabolism                      SI

8. The official name of the metric system is \_\_\_\_\_.
9. A(n) \_\_\_\_\_ is a tool used to magnify organisms.
10. To be safe in the lab, you should follow all \_\_\_\_\_.
11. Ecology and zoology are two of the many branches of \_\_\_\_\_.
12. Inherited characteristics change over generations in a process called \_\_\_\_\_.
13. The sum of all chemical reactions that happen in an organism is called \_\_\_\_\_.



Look at the pictures above of the cheetahs and the paramecium, which is a single-celled organism. In the space provided, write *T* if the statement is true or *F* if it is false.

- \_\_\_\_\_ 14. These organisms respond to their environment.
- \_\_\_\_\_ 15. The cells of these organisms have the same basic structure.
- \_\_\_\_\_ 16. Homeostasis and metabolism are important for a cheetah but not for a paramecium.
- \_\_\_\_\_ 17. Reproduction means that the organisms will be able to produce more of their own kind.