

**SECTION 1-2 REVIEW**

# THEMES IN BIOLOGY

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**VOCABULARY REVIEW** Distinguish between the terms in each of the following groups of terms.

1. domain, kingdom \_\_\_\_\_  
\_\_\_\_\_
2. diversity of life, unity of life \_\_\_\_\_  
\_\_\_\_\_
3. adaptations, evolution \_\_\_\_\_  
\_\_\_\_\_
4. ecosystem, ecology \_\_\_\_\_  
\_\_\_\_\_

**MULTIPLE CHOICE** Write the correct letter in the blank.

- \_\_\_\_\_ 1. A “tree of life” explains
  - a. how organisms are related to each other.
  - b. how organisms differ from each other.
  - c. the lineages of various organisms.
  - d. All of the above
- \_\_\_\_\_ 2. Which of the following is NOT an important unifying theme in biology?
  - a. the diversity and unity of life
  - b. the relationship between organisms and society
  - c. the interdependence of living organisms
  - d. the evolution of life
- \_\_\_\_\_ 3. An example of a domain is
  - a. Animalia.
  - b. Protista.
  - c. Fungi.
  - d. Eukarya.
- \_\_\_\_\_ 4. A trait that improves an individual’s ability to survive and reproduce is a(n)
  - a. mutation.
  - b. natural selection
  - c. adaptation.
  - d. domain.
- \_\_\_\_\_ 5. Which of the following statements is *true*?
  - a. Destruction of rain forests has no effect on living things.
  - b. Destruction of rain forests increases the rate of evolution of rainforest organisms.
  - c. Humans have had no impact on the world’s environment.
  - d. Humans have had a large impact on the world’s environment.

**SHORT ANSWER** Answer the questions in the space provided.

1. Give an example of how two organisms are interdependent. \_\_\_\_\_  
\_\_\_\_\_
2. Why must an adaptation be inheritable if it is to cause a population to evolve? \_\_\_\_\_  
\_\_\_\_\_
3. What is natural selection? \_\_\_\_\_  
\_\_\_\_\_
4. If two organisms share the same kingdom, must they also share the same domain? Explain.  
\_\_\_\_\_  
\_\_\_\_\_
5. **Critical Thinking** A female frog has a genetic trait that prevents it from producing eggs. How likely is it that this trait will spread through the frog population? Explain your answer.  
\_\_\_\_\_  
\_\_\_\_\_

**STRUCTURES AND FUNCTIONS** Briefly describe the interactions among the panther, the deer, and the grass in the drawing below.



\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_