

**SECTION 1-2 REVIEW**

# THE WORLD OF BIOLOGY

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**VOCABULARY REVIEW** Circle the term that does not belong in each of the following groups, and briefly explain why it does not belong.

1. crystals, cells, energy use, growth \_\_\_\_\_  
\_\_\_\_\_
2. metabolism, photosynthesis, chemical processes, biological diversity \_\_\_\_\_  
\_\_\_\_\_
3. cell division, cell differentiation, internal environment, development \_\_\_\_\_  
\_\_\_\_\_
4. water content, insulation, reproduction, homeostasis \_\_\_\_\_  
\_\_\_\_\_
5. eggs, fertilization, unicellular organisms, offspring \_\_\_\_\_  
\_\_\_\_\_

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

- \_\_\_\_\_ 1. In most multicellular organisms, cells and groups of cells are organized by their  
a. function.                      b. size.                      c. color.                      d. energy needs.
- \_\_\_\_\_ 2. The sum of all of the chemical processes that occur in an organism is called  
a. growth.                      b. metabolism.                      c. development.                      d. homeostasis.
- \_\_\_\_\_ 3. Nonliving things grow by  
a. cell division.                      c. increasing the amount of energy they use.  
b. cell enlargement.                      d. accumulating more of the material they  
are made of.
- \_\_\_\_\_ 4. The process by which an adult organism arises is called  
a. fertilization.                      b. metabolism.                      c. development.                      d. aging.
- \_\_\_\_\_ 5. Many of the organisms living today have not been identified because they are  
a. very large.                      c. not composed of cells.  
b. extinct.                      d. residents of deep ocean waters.

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

1. List the six characteristics of living things. \_\_\_\_\_  
\_\_\_\_\_
2. Why do organisms require energy? \_\_\_\_\_  
\_\_\_\_\_
3. Contrast growth in living and nonliving things. \_\_\_\_\_  
\_\_\_\_\_
4. What is the difference between growth and development in a multicellular organism? \_\_\_\_\_  
\_\_\_\_\_
5. Is reproduction essential to the survival of an individual organism? Explain your answer. \_\_\_\_\_  
\_\_\_\_\_
6. **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** Explain how the drawing below illustrates the characteristics of life.



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