



## Cell Processes and Energy ▪ Section 4.2 Quiz

*If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.*

- \_\_\_\_\_ 1. Cells obtain energy from glucose through the process of photosynthesis.
- \_\_\_\_\_ 2. The gas nitrogen is needed both for breathing and for cellular respiration.
- \_\_\_\_\_ 3. The first stage of respiration takes place in the mitochondria.
- \_\_\_\_\_ 4. More energy is released in the second stage of respiration.
- \_\_\_\_\_ 5. Some organisms are able to release energy without oxygen through the process of respiration.

## Cell Processes and Energy ▪ Section 4.3 Quiz

*Fill in the blank to complete each statement.*

1. Cells grow and divide, over and over, during the three stages of the \_\_\_\_\_.
2. During interphase, the cell grows, makes a copy of its DNA, and prepares to \_\_\_\_\_.
3. When a cell divides, its DNA condenses into rod-like \_\_\_\_\_.
4. Once interphase is complete, \_\_\_\_\_ begins.
5. Mitosis has four phases: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

**Cell Processes and Energy ▪ Section 4.4 Quiz**

*If the statement is true, write true. If the statement is false, change the underlined word or words to make the statement true.*

- \_\_\_\_\_ 1. Through differentiation, cells not only divide but change in structure and become capable of carrying out specialized functions.
- \_\_\_\_\_ 2. Plants and animals begin their lives as multicellular organisms.
- \_\_\_\_\_ 3. Cells become increasingly specialized as development continues.
- \_\_\_\_\_ 4. How a cell will differentiate depends on its RNA.
- \_\_\_\_\_ 5. Stem cells can differentiate throughout life.