

## Content Vocabulary

## LESSON 1

### The Cell Cycle and Cell Division

**Directions:** On each line, write the term from the word bank that correctly replaces the underlined words in each sentence. NOTE: You may need to change a term to its plural form.

cell cycle

centromere

cytokinesis

daughter cells

eukaryotic

interphase

mitosis

sister chromatids

- \_\_\_\_\_ 1. At the end of the cell cycle, the division of the cell's nucleus occurs.
  
- \_\_\_\_\_ 2. Until the sister chromatids in each duplicated chromosome separate during mitosis, they are held together by a special structure.
  
- \_\_\_\_\_ 3. A chromosome is made up of two identical coiled strands of DNA.
  
- \_\_\_\_\_ 4. Following mitosis, the division of the cell's cytoplasm occurs.
  
- \_\_\_\_\_ 5. Most cells go through a cyclical process of growth, development, and division.
  
- \_\_\_\_\_ 6. The cell cycle can be divided into two main phases—a period of growth and development and the mitotic phase.
  
- \_\_\_\_\_ 7. Mitosis and cytokinesis result in the formation of two identical new cells.
  
- \_\_\_\_\_ 8. For some cells, identified as those with membrane-bound structures, the cell cycle might take as long as one year.