

**Content Practice A****LESSON 1*****The Cell Cycle and Cell Division***

**Directions:** On each line, write the term from the word bank that correctly completes each sentence. Each term is used only once.

<b>cell cycle</b>	<b>centromere</b>	<b>cytokinesis</b>	<b>daughter cells</b>
<b>interphase</b>	<b>mitosis</b>	<b>sister chromatids</b>	

- The \_\_\_\_\_ is the regular pattern of growth, development, and division in cells.
- Identical strands of a chromosome are called \_\_\_\_\_.
- Two identical nuclei are formed during \_\_\_\_\_.
- Cytoplasm divides to form two cells during \_\_\_\_\_.
- The two cells produced during the cell cycle are called \_\_\_\_\_.
- After chromatin is duplicated, sister chromatids are connected by a(n) \_\_\_\_\_.
- The two main phases in the cell cycle are \_\_\_\_\_ and the mitotic phase.

**Directions:** Complete each sentence by circling the correct word(s) in parentheses.

- The most important result of the cell cycle is two (identical/very different) cells.
- The cell cycle is important for reproduction in (multicellular/unicellular) organisms.
- The cell cycle is important for growth and repair in (multicellular/unicellular) organisms.
- After cell division, the parent cell (divides again/no longer exists).

**Content Practice B**

**LESSON 1**

## ***The Cell Cycle and Cell Division***

**Directions:** Answer each question on the lines provided.

1. What are the two main phases of the cell cycle?

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2. During which phase of the cell cycle is chromatin duplicated?

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3. During which main phase of the cell cycle do mitosis and cytokinesis occur?

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4. What is the difference between mitosis and cytokinesis?

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5. What makes up a chromosome?

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6. What is produced at the end of the cell cycle? How do they compare to each other and to the parent cell? What happens to the parent cell?

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7. How is the cell cycle important to some unicellular organisms?

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8. How is the cell cycle important to multicellular organisms?

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