

Use with textbook pages 153–158.

Getting to know the cell cycle

Vocabulary

anaphase	mitosis
cell cycle	nucleolus
cytokinesis	nucleus
DNA	prophase
duplicated chromosomes	telophase
four	three
interphase	two
metaphase	

Use the terms in the vocabulary box to fill in the blanks. You can use each term more than once. You will not need to use every term.

- There are _____ stages in the life of a cell.
- The stage that makes up most of the cell's life is _____.
During this stage, cells grow and carry out their life functions. In cells that will divide, the nucleus makes a copy of its _____.
- During _____, the nucleus of the cell divides into two equal and identical parts. Each part has a copy of the DNA.
- During _____, the two equal, identical parts of the cell separate. This stage forms _____ identical cells with a nucleus and DNA.
- There are _____ phases of mitosis.
- In _____, the duplicated chromosomes contract into an X shape and the _____ disappears.
- In _____, the _____ line up across the middle of the cell.
- In _____, the _____ move apart to opposite ends of the cell.
- In _____, a _____ forms around the chromosomes at the opposite ends of the dividing cell.

Name _____

Date _____

Use with textbook pages 150–165.

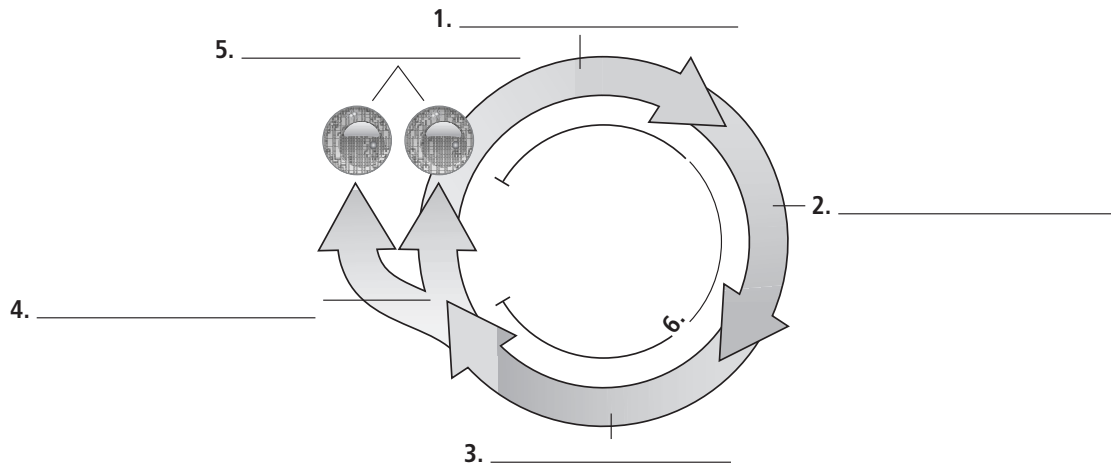
Identifying stages of the cell cycle

Vocabulary

continued growth and preparation
cytokinesis
replication

growth and preparation
interphase
mitosis

Use the vocabulary words in the box above to label the stages of the cell cycle in the following diagram.



Briefly describe what is occurring in each stage of the cell cycle.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____
