

## CHAPTER 17

# STUDY GUIDE

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### 17.1 Cell Growth, Division, and Reproduction

The larger a cell becomes, the more demands the cell places on its DNA. In addition, a larger cell is less efficient in moving nutrients and waste materials across the cell membrane. The process of cell division solves this problem.

Asexual reproduction is the production of genetically identical offspring from a single parent. Offspring produced by sexual reproduction inherit some of their genetic information from each parent. Sexual reproduction produces genetic diversity and may help a species to survive in a changing environment.

- cell division
- asexual reproduction
- sexual reproduction

#### Ratio of Surface Area to Volume in Cells



**CCC Cause and Effect** What changes occur to the ratio of surface area to volume as a cell grows?

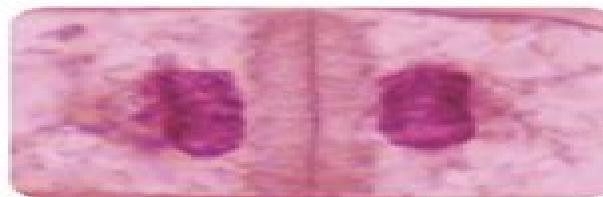
### 17.2 The Process of Cell Division

Genetic information is bundled into packages of DNA known as chromosomes. Prokaryotic cells have a single circular chromosome. Eukaryotic cells have multiple chromosomes enclosed in the nucleus.

Cell division in prokaryotes is a form of asexual reproduction known as binary fission. The eukaryotic cell cycle consists of four stages: cell growth, DNA replication, preparing for cell division, and cell division.

Mitosis is the division of the cell nucleus. During mitosis, chromosomes duplicate and condense into sister chromatids, which line up and then separate. In the final phase of mitosis, the separated chromosomes cluster and form duplicate nuclei. After mitosis, cytoplasm divides in the process known as cytokinesis, forming two daughter cells.

|                                                                                                                                                                                       |                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• chromosome</li><li>• chromatin</li><li>• cell cycle</li><li>• interphase</li><li>• mitosis</li><li>• cytokinesis</li><li>• prophase</li></ul> | <ul style="list-style-type: none"><li>• chromatid</li><li>• centromere</li><li>• centriole</li><li>• metaphase</li><li>• anaphase</li><li>• telophase</li></ul> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|



**Classify** What type of cell is undergoing cytokinesis in the photo? How do you know?

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**Padhraic Smyth**

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**Biology** Kenneth Raymond Miller,Nancy Montgomery,Joseph S. Levine,2008     *Subject Guide to Books in Print* ,2001

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