





## 10.2 The Process of Cell Division

### Lesson Objectives

-  Describe the role of chromosomes in cell division.
-  Name the main events of the cell cycle.
-  Describe what happens during the four phases of mitosis.
-  Describe the process of cytokinesis.

### Lesson Summary

**Chromosomes** Packages of DNA called **chromosomes** hold a cell's genetic information.

- ▶ Prokaryotic chromosomes consist of a single, circular strand of DNA.
- ▶ Eukaryotic chromosomes are highly organized structures.
  - The DNA winds around histone proteins, forming **chromatin**.
  - Chromosomes make the precise separation of DNA possible during cell division.

**The Cell Cycle** The **cell cycle** is the series of events in the growth and division of a cell.

- ▶ In the prokaryotic cell cycle, the cell grows, duplicates its DNA, and divides by pinching in the cell membrane.
- ▶ The eukaryotic cell cycle has four stages (the first three of which are referred to as **interphase**):
  - In the G<sub>1</sub> phase, the cell grows.

**Interphase** The first three stages of the cell cycle, during which the cell grows and duplicates its DNA. It consists of the G<sub>1</sub> phase, S phase, and G<sub>2</sub> phase.

**G<sub>1</sub> phase** The first stage of interphase, during which the cell grows and prepares for DNA replication.

**S phase** The second stage of interphase, during which DNA is replicated.

**G<sub>2</sub> phase** The third stage of interphase, during which the cell grows and prepares for mitosis.

**Mitosis** The process of cell division, during which the cell's DNA is divided into two equal parts.

**Cytokinesis** The process of cell division, during which the cell's cytoplasm is divided into two equal parts.

**Prokaryotic cell cycle** The cell cycle of a prokaryotic cell, which is simpler than the eukaryotic cell cycle.

**Eukaryotic cell cycle** The cell cycle of a eukaryotic cell, which is more complex than the prokaryotic cell cycle.

# Study Guide With Answer Key For Mitosis

**Jane B. Taylor**



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