

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 G₁ phase, the cell grows.

Study Guide With Answer Key For Mitosis

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