

Mitosis

Mitosis is the process where a eukaryotic cell doubles its chromosomes (DNA) and then divides into two cells that are copies of the original cell. It is how new cells are made when an organism (like you) grows or repairs damaged tissue (like a cut).

A cell with 2 chromosomes is shown to the right in interphase. Each of these chromosomes duplicates to produce copies (sister chromatids) shown in blue to the left (all the chromosomes are not condensed and visible until prophase).

Prophase

Centrioles within the centrosome.

A spindle fiber made of microtubules made of tubulin.

In prophase, the spindle fibers begin to form and attach to the **centromeres** (shown in white) of each pair of **sister chromatids**. The **nuclear envelope** dissolves and the **centrioles** move towards opposite poles of the cell. A protein structure called the **kinetochore** connects the spindle fibers to the centromeres.

Metaphase

The spindle fibers pull the chromosomes to the center of the cell (the **metaphase plate**). We call this stage metaphase, once all the centromeres are aligned in the center of the cell.

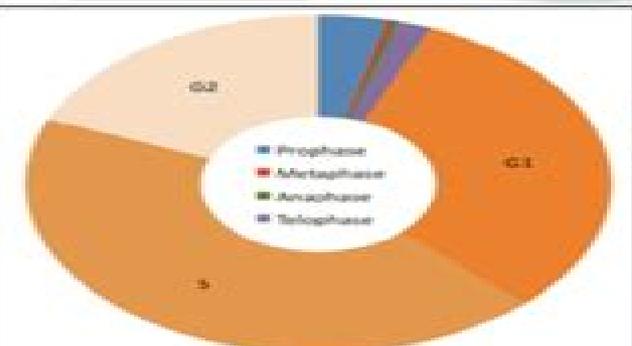
Anaphase

Anaphase is the stage of mitosis when the sister chromatids are pulled apart (they **disjoin**) and each copy is pulled to an opposite pole of the cell.

Telophase

In telophase the cell divides in half (**cytokinesis**), spindle fibers disappear and the nuclear envelope forms around each set of chromosomes.

When telophase is complete, two cells have been produced which are copies of the original cell.



Mitosis is part of a larger cell cycle. When not in mitosis the cell is in **interphase** which is divided into **G1** (Gap 1), **S** (Synthesis) and **G2** (Gap 2). The chromosomes are actually duplicated in the S phase but not visible until prophase. The relative time of each stage is shown in the pie chart above.

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**Kathy Zahler, Krystal Sanders-MD, Chan
Liaw-MD**

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Table of Contents Mitosis Study Guide

1. Understanding the eBook Mitosis Study Guide
 - The Rise of Digital Reading Mitosis Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Mitosis Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mitosis Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mitosis Study Guide
 - Personalized Recommendations
 - Mitosis Study Guide User Reviews and Ratings
 - Mitosis Study Guide and Bestseller Lists
5. Accessing Mitosis Study Guide Free and Paid eBooks

- Mitosis Study Guide Public Domain eBooks
 - Mitosis Study Guide eBook Subscription Services
 - Mitosis Study Guide Budget-Friendly Options
6. Navigating Mitosis Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Mitosis Study Guide Compatibility with Devices
 - Mitosis Study Guide Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mitosis Study Guide
 - Highlighting and Note-Taking Mitosis Study Guide
 - Interactive Elements Mitosis Study Guide
 8. Staying Engaged with Mitosis Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mitosis Study Guide
 9. Balancing eBooks and Physical Books Mitosis Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mitosis Study Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Mitosis Study Guide
 - Setting Reading Goals Mitosis Study Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Mitosis Study Guide
 - Fact-Checking eBook Content of Mitosis Study Guide
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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