

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.

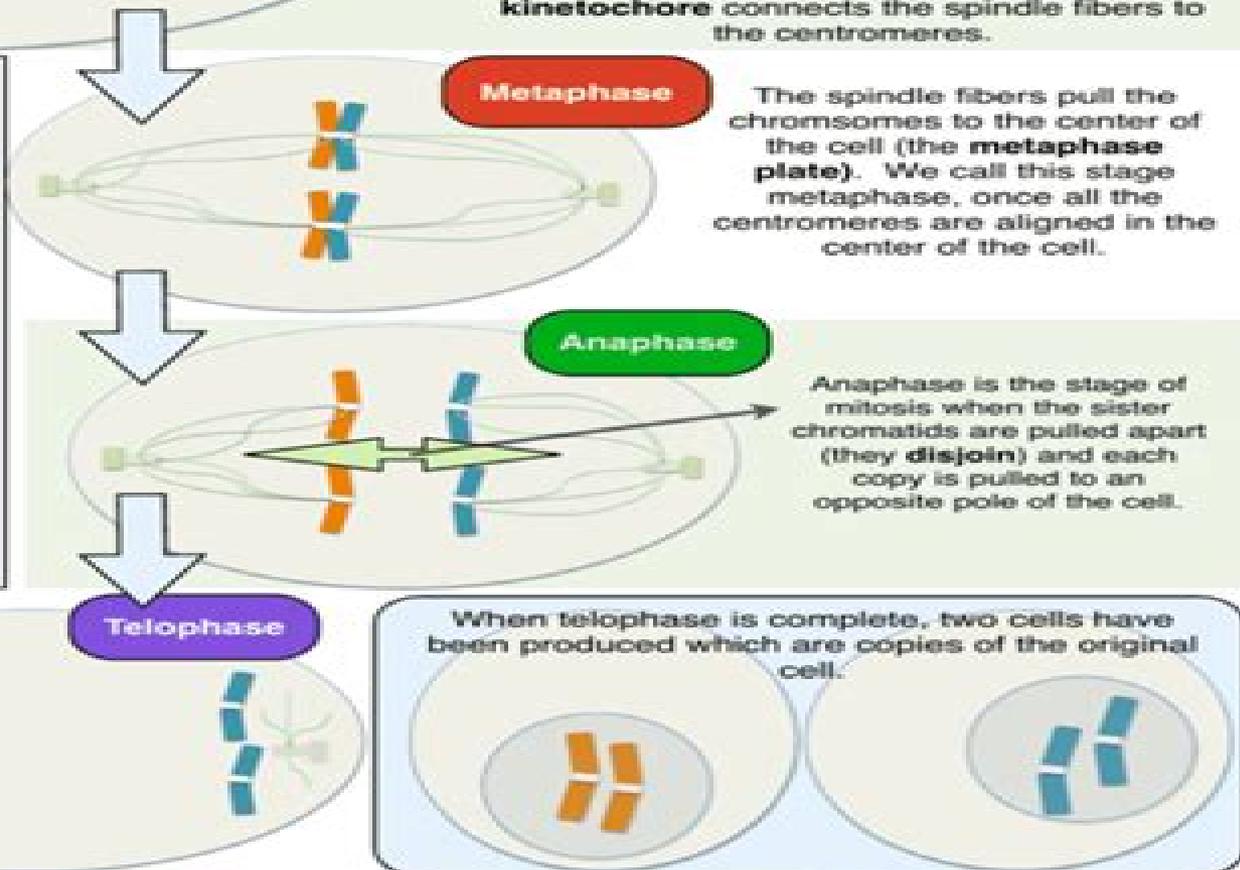
Telophase

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.



Mitosis Cell Division Study Guide 8 Answers

J Spring



Mitosis Cell Division Study Guide 8 Answers:

The book delves into Mitosis Cell Division Study Guide 8 Answers. Mitosis Cell Division Study Guide 8 Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Mitosis Cell Division Study Guide 8 Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Mitosis Cell Division Study Guide 8 Answers
 - Chapter 2: Essential Elements of Mitosis Cell Division Study Guide 8 Answers
 - Chapter 3: Mitosis Cell Division Study Guide 8 Answers in Everyday Life
 - Chapter 4: Mitosis Cell Division Study Guide 8 Answers in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of Mitosis Cell Division Study Guide 8 Answers. This chapter will elucidate the essential principles that must be understood to grasp Mitosis Cell Division Study Guide 8 Answers in its entirety.
 4. In chapter 3, this book will examine the practical applications of Mitosis Cell Division Study Guide 8 Answers in daily life. This chapter will showcase real-world examples of how Mitosis Cell Division Study Guide 8 Answers can be effectively utilized in everyday scenarios.
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 6. In chapter 5, the author will draw a conclusion about Mitosis Cell Division Study Guide 8 Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Mitosis Cell Division Study Guide 8 Answers.

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