

## Cell Cycle and Mitosis Study Guide

1. List 2 reasons why cells divide? **Reproduce and repair**
2. Describe the chromosome structure of a bacteria. **Circular**
3. The region of a chromosome where two sister chromatids are held together is called a **centromere**.
4. Describe the structure of a chromosome.
5. In order to fit within a cell, DNA becomes more compact by wrapping around **proteins called histones**.
6. In a bacterium, what type of cell division takes place? What is the result? **Binary fission, results in two identical cells**
7. The phase of the cell cycle that occupies most of an average cell's life is **interphase**.
8. What phase does the cell enter after cytokinesis is completed? **interphase**
9. Which of the following shows the correct sequence of the cell cycle?
  - A. Cytokinesis → mitosis →  $G_1 \rightarrow S \rightarrow G_2$
  - B.  $S \rightarrow G_1 \rightarrow G_2 \rightarrow$  mitosis → cytokinesis
  - C.  **$G_1 \rightarrow S \rightarrow G_2 \rightarrow$  mitosis → cytokinesis**
  - D. Mitosis →  $G_1 \rightarrow S \rightarrow G_2 \rightarrow$  cytokinesis
10. Cells that are not dividing remain in which phase? **interphase**
11. The synthesis (S) phase is characterized by what process? **Replication of DNA**
12. The first three steps of the cell cycle are collectively known as **interphase**.
13. Mitosis is the process by which **cells divide**.
14. The phase of mitosis that is characterized by the arrangement of all chromosomes along the equator/middle of the cell is called **metaphase**.

Use the picture below to answer questions 17-19



15. The cell in picture 1 is in what phase of mitosis? **anaphase**.
16. The cell in picture 2 is in what phase of mitosis? **prophase**.
17. The cell in picture 5 is in what phase of mitosis? **telophase**.
18. Using the numbers that correspond with the pictures above put the events of mitosis in order? **2,4,3,1,5**
19. As a result of mitosis, each of the two new cells produced from the parent cell during cytokinesis **are identical to the parent cell**.
20. Cytokinesis in plant cells involves the formation of **cell plate**, while in animal cells a **cleavage furrow** forms.
21. What aids the chromosomes to line up in the middle (equator) of the cell? **Spindle fibers**.
22. What organelle do animal cells have that plant cells do not have when undergoing mitosis? **centrioles**
23. Which cells undergo binary fission as their form of replication? **bacteria**
24. The cells that undergo asexual reproduction produce cells that **are identical to the parent cells**

# Key Mitosis Study Guide

**Puja Mehta**



## **Key Mitosis Study Guide:**

This book delves into Key Mitosis Study Guide. Key Mitosis Study Guide is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Key Mitosis Study Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Key Mitosis Study Guide
- Chapter 2: Essential Elements of Key Mitosis Study Guide
- Chapter 3: Key Mitosis Study Guide in Everyday Life
- Chapter 4: Key Mitosis Study Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Key Mitosis Study Guide. The first chapter will explore what Key Mitosis Study Guide is, why Key Mitosis Study Guide is vital, and how to effectively learn about Key Mitosis Study Guide.
3. In chapter 2, this book will delve into the foundational concepts of Key Mitosis Study Guide. This chapter will elucidate the essential principles that must be understood to grasp Key Mitosis Study Guide in its entirety.
4. In chapter 3, this book will examine the practical applications of Key Mitosis Study Guide in daily life. The third chapter will showcase real-world examples of how Key Mitosis Study Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Key Mitosis Study Guide in specific contexts. The fourth chapter will explore how Key Mitosis Study Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Key Mitosis Study Guide. This chapter will summarize the key points that have been discussed throughout the book.

The 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 Key Mitosis Study Guide.

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