

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 \rightarrow mitosis \rightarrow G₁ \rightarrow S \rightarrow G₀
 - B. S \rightarrow G₁ \rightarrow G₂ \rightarrow mitosis \rightarrow cytokinesis
 - C. G₁ \rightarrow S \rightarrow G₂ \rightarrow mitosis \rightarrow cytokinesis
 - D. Mitosis \rightarrow G₁ \rightarrow S \rightarrow G₂ \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**.

Mitosis Study Guide

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Mitosis Study Guide:

Mitosis: Cell Growth & Division Science Learning Guide NewPath Learning,2014-03-01 The Mitosis Cell Growth Chromosomes DNA Replication Mitosis Overview Phases of Animal Mitosis Cytokinesis Phase of Plant Mitosis Comparing Plant and Stem Cells Aligned to Next Generation Science Standards NGSS and other state standards *Study Guide for Use with Biology for the Informed Citizen* Sharon Gilman,2014-01-14 Designed to work with Biology for the Informed Citizen by Donna M Bozzone and Douglas S Green this Study Guide provides students with brief summaries and step by step analyses of each chapter additional review questions and thoughtful advice and study tips The Study Guide is authored by Sharon Gilman who is also the author of the book s test item file a resource for instructors that includes over 1200 questions for easy student evaluation **Ssg- Human Biology 6E Student Study Guide** Chiras,2008-02 Human Biology Sixth Edition provides students with a clear and concise introduction to the general concepts of mammalian biology and human structure and function With its unique focus on health and homeostasis Human Biology enhances students understanding of their own health needs and presents the scientific background necessary for students to think critically about biological information they encounter in the media The completely revised content and exceptional new art and photos provide students with a more user friendly text while excellent learning tools maximize comprehension of material *Study Guide for The Anatomy and Physiology Learning System* Edith Applegate,2010-03-30 Designed to accompany The Anatomy and Physiology Learning System 4th Edition by Edith Applegate this study guide helps you learn and review basic A P concepts Each chapter emphasizes medical terminology with a set of key terms word parts clinical terms and abbreviations and then adds a variety of fun filled learning exercises review questions a quiz and a word puzzle The study guide corresponds to the textbook chapter for chapter Chapter learning objectives help you focus on the most important material Key concepts are defined on the first page of each chapter in the workbook Learning exercises for each chapter include short answer matching and diagrams to label and color Self quizzes allow you to measure your progress and understanding Fun and Games features end each chapter with a variety of engaging puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter review provides questions for reinforcement and review of the concepts in each chapter **Student Study Guide to Accompany Human Biology** Sylvia S. Mader,2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis *Biology, Study Guide* Gilbert D. Brum,Larry McKane,Gerald Karp,1993-10-28 This lively richly illustrated text makes biology relevant and appealing revealing it as a dynamic process of exploration and discovery Portrays biologists as they really are human beings with motivations misfortunes and mishaps

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

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