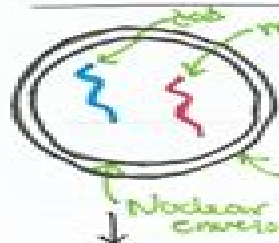


# Mitosis

2N



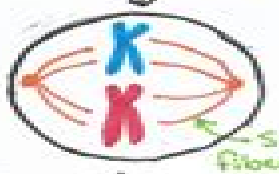
- Body cell
- diploid parent cell

2N



- Prophase
- Chromosomes condense
  - Nuclear envelope dissolves.

2N



- Metaphase
- Individual chromosomes align in middle (metaphase plate)

2N



- Anaphase
- Sister chromatids separate into individual chromosome + pull apart.

2N



- Telophase
- nuclear envelope reforms
  - chromosome decondense

2N



- Cytokinesis
- 2 diploid daughter cells form
  - identical to parent.

# Meiosis

2N



- Body cell
- diploid parent cell

2N



- Prophase I
- Chromosomes condense
  - Nuclear envelope breaks down
  - bivalents form
- (bivalent: pair of homologous chromosomes that are associated w/ one another one mom - one dad.)

2N



- Metaphase I
- Homologous pairs align at the middle (metaphase plate)
- (Homologous chromosomes: chromosome pairs - one from dad, one from mom)

2N



- Anaphase I
- Homologous chromosomes move to the opposite poles of the cell.

2N



- Telophase I
- Homologous chromosomes separate

N



- Cytokinesis
- 2 haploid cells result.

N



- Prophase II
- Spindles appear

N



- Metaphase II
- Chromosomes line in middle

N



- Anaphase II
- Sister chromatids separate + move to opposite sides

N



- Telophase II
- Chromosomes move to opposite poles
- Cytokinesis
- 4 haploid daughter cells.

# Mitosis Diagram Study Sheet

**James M. Ford**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Mitosis Diagram Study Sheet:**

*Life Study Guide* David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

**College Biology I** James Hall Zimmerman, Sophie E. Merritt, 1963 *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

**Study Guide for Anatomy & Physiology - E-Book** Linda Swisher, Kevin T. Patton, 2014-12-02 Get some extra help mastering core terms concepts and processes related to the anatomy and physiology of the human body with this comprehensive study aid Study Guide for Anatomy Physiology 9th Edition provides a variety of chapter activities and questions including crossword puzzles word scrambles and questions in the multiple choice true or false labeling matching and application formats to help you apply concepts and test your A P knowledge More than 1 200 review questions cover multiple choice matching true false fill in the blank and completion formats Mind tester activities include crossword puzzles word scrambles and more to make the process of learning basic anatomy and physiology more engaging Apply What You Know sections encourage critical thinking and application of core content Did You Know sections cover factual tidbits that will interest users Topics for review tell the reader what to review in the textbook prior to beginning the exercises in the study guide Answer key containing all the answers to study guide questions is located in the back of the guide NEW Modified chapter structure reflects the new organization of chapters in the Patton 9th Edition main text

**The Development of a Programed Learning Unit on Mitosis** Mary Ann (Wise) Renk, 1964 *Study Guide and Review Manual of Basic Human Anatomy and Physiology* Maurice Henry Lindsay Gibson, 1978

**OCR AS Biology Student Unit Guide: Unit F211 Cells, Exchange and Transport** Richard Fosbery, 2008-09-26 Student Unit Guides are perfect for revision Each guide is written by an examiner and explains the unit requirements summarises the relevant unit content and includes a series of specimen questions and answers There are three sections to each guide Introduction includes advice on how to use the guide an explanation of the skills being tested by the assessment objectives an outline of the unit or module and depending on the unit suggestions for how to revise effectively and prepare for the examination questions Content Guidance provides an examiner s overview of the module s key terms and concepts and identifies opportunities to exhibit the skills required by the unit It is designed to help students to structure their

revision and make them aware of the concepts they need to understand the exam and how they might analyse and evaluate topics Question and Answers sample questions and with graded answers which have been carefully written to reflect the style of the unit All responses are accompanied by commentaries which highlight their respective strengths and weaknesses giving students an insight into the mind of the examiner **Study Guide: Sg Concepts in Biology** Eldon D..

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**Study Guide to Accompany Biology: Life on Earth by Teresa Audesirk and Gerald Audesirk** David J. Cotter,1986 **Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease** Barbara Janson Cohen,Memmler,1996

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