

Dry Lab: Comparing Mitosis and Meiosis**Learning goals:**

- to identify cells in the different stages of mitosis
- to experimentally determine in which stage the cell spends most of its time
- to describe the different stages of mitosis
- to compare cytokinesis in plant and animal cells
- to view and describe the stages of meiosis
- to describe how crossing over contributes to genetic variability
- to compare and contrast mitosis and meiosis processes
- to learn vocabulary associated with these processes (*meiosis, mitosis, cytokinesis, somatic cells, germ cells, chromosome, centrioles, centromere, spindle fibers, chiasmata, homologous chromosomes, crossing over, gene*).

Introduction:

In 1858, Rudolf Virchow discovered that new cells can only arise from previously existing cells. There are two processes that give rise to new cells: mitosis and meiosis. Somatic (body) cells divide exclusively by mitosis (division of nuclear material) followed by splitting of the cytoplasm and organelles, called cytokinesis. Meiosis is the process through which specialized germ cells produce gametes (sex cells).

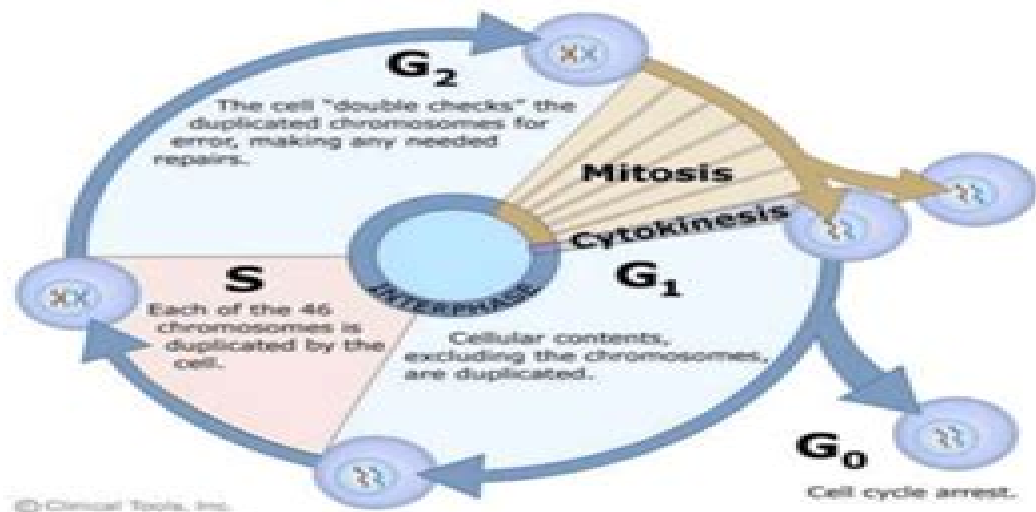
PART I. MITOSIS

Before mitosis occurs, the cell must duplicate all of its genetic material. This occurs during interphase (refer to the *Cell Cycle diagram on the right*).

Mitosis is a continuous process, but can be divided into four major phases: prophase, metaphase, anaphase, telophase.

1. Stages of Mitosis

Briefly describe what happens in each stage, using the space and diagrams on the next page (*please, use your textbook for help*).



Mitosis And Meiosis Lab Conclusion Answer Key

Katrin Zwirgmaier



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Anatomy and Physiology Jay Marvin Templin, 1989-06 This manual is designed for the student to use in the laboratory portion of an anatomy and physiology course It has a number of features that will help the student learn about the structure and function of the human body Pref Student Handbook Southwestern, 2005 The Student Handbook is designed to provide students with ready access to information with problem solving techniques and study skill guides that enable them to utilize the information in the most efficient manner Amazon com **Handbook for Qualities of Effective Teachers** James H. Stronge, Pamela D. Tucker, 2004-12-15 What makes an effective teacher How do you help good teachers become even better What tools and techniques are available to support and sustain quality teaching In this companion to the best selling Qualities of Effective Teachers you ll find numerous strategies for examining the practice of teaching helping teachers improve their skills and establishing an environment that supports good teaching Each chapter concentrates on a different aspect of teacher effectiveness and the authors include real life teacher scenarios with focus questions that prompt readers to analyze the specific qualities of teaching The authors offer their own analyses of these scenarios and also include supportive research summaries blackline masters graphic organizers and other aids to help readers thoroughly explore the various qualities of effective teachers Principals staff developers teacher educators teacher mentors instructional leaders and teachers themselves can use this book to support new teachers with emerging skills coach promising teachers in the process of becoming effective teachers and identify specific teacher needs from questioning skills to assessment No matter what the skill level of the teachers involved Handbook for Qualities of Effective Teachers will encourage a new level of self reflection and better focus efforts to develop the kind of teaching skills that make a positive difference in the classroom Note This product listing is for the Adobe Acrobat PDF version of the book **Resources in Education**, 1995 **Laboratory Manual Inquiry into Life** Sylvia S. Mader, Nuclear Science Abstracts, 1972 **Principles of Life** David M. Hillis, 2012 For sample chapters a video interview with David Hillis and more information visit www.whfreeman.com/hillispreview Sinauer Associates and W H Freeman are proud to introduce Principles of Life Written in the spirit of the reform movement that is reinvigorating the introductory majors course Principles of Life cuts through the thicket of excessive detail and factual minutiae to focus on what matters most in the study of biology today Students explore the most essential biological ideas and information in the context of the field s defining experiments and are actively engaged in analyzing research data The result is a textbook that is hundreds of pages shorter and significantly less expensive than the current majors introductory books **Biology Laboratory Manual** Sylvia S. Mader, 2000-07 Mader includes revised coverage of animal behaviour and ecology as well as a wealth of new focus boxes which highlight topics of high interest and relate biology to everyday life This text is linked to a web site offering extended chapter outlines *Biology* Sylvia S. Mader, 2003-07 Aims to help students develop critical and creative reasoning skills in investigating science This manual provides step by step procedures and hands on

activities to help students learn the concepts of biology It covers the entire field of general biology *Seikagaku* ,2003

The Software Encyclopedia 2001 ,2001 **Journal of Biological Education** ,1987 The American Biology Teacher ,1938 Includes section Books **Molecular Biology of the Cell** ,2001 **Video Source Book** ,2006 A guide to programs currently available on video in the areas of movies entertainment general interest education sports recreation fine arts health science business industry children juvenile how to instruction **Carolina Science and Math** Carolina Biological Supply Company,2003 Resources in Education ,1995 **Agrindex** ,1995 Directory of Distance Learning Opportunities Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation **Chemical Abstracts** ,2002

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Mitosis And Meiosis Lab Conclusion Answer Key**

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