

## Mitosis and Meiosis Webquest

Name: \_\_\_\_\_

**Objective:** In this activity, you will use the following web pages to examine the processes of mitosis and meiosis. Both of these processes are important in homeostasis as well as human reproduction.

### **PART A: Cell Growth and Mitosis**

Please go to the following webpage:

<http://plaza.ufl.edu/alallen/pgl/modules/rio/stingarees/module/index.html>

1. What is the function of the cell membrane related cell division?
2. What is the role of the nucleus in cell division?
3. What is the role of the centrioles in cell division?
4. What is the role of the microtubules in cell division?

Click on the tab, "Why Must Cells Divide?"

5. Why are cells limited in size?
6. Click on the animation. A cell with 2cm sides has what surface area? \_\_\_\_\_ What volume?
7. What would be the surface to volume ratio?
8. A cell with a large volume will have a more difficult time doing what?

Click on the tab, "What Does Mitosis Do?"

9. What are the 2 major functions of mitosis?

Click on the tab, "Built-in Controls in Mitosis"

10. What are the 2 ways that cells "know" to stop dividing?

Please go to: <http://www2.estrellamountain.edu/faculty/farabee/BIOBK/BioBookmito.html>

11. What ends the cell division process where one cell splits from the sister cell?
12. Some cells divide rapidly. Example?
13. Some cells do not divide at all after maturity. Example?
14. What creatures does binary fission occur in?
15. List the steps in the cell cycle in order:

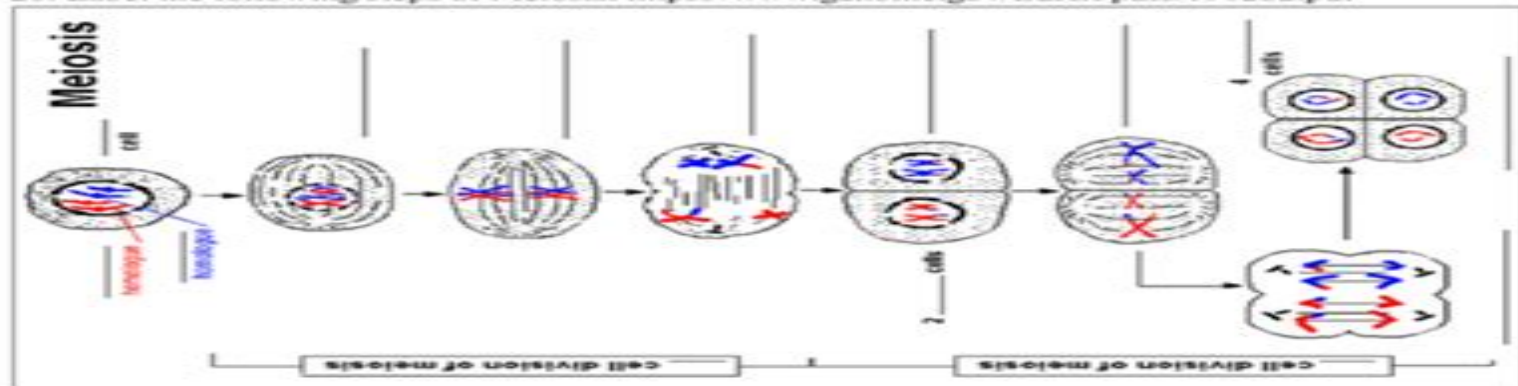
### **PART B: Meiosis**

Please go to the webpage: <http://www.lpscience.fatcow.com/jwanamaker/animations/meiosis.html>

16. What is the purpose of meiosis?

Please go to <http://www.cellsalive.com/meiosis.htm> Start the animation. Click on the phases

17. What do the chromosomes do in Prophase I?
18. Crossing Over occurs in Prophase I. What is the significance of crossing over?
19. Compare the number of chromosomes in the starting parent cell to the number of chromosomes in each of the four daughter cells formed by meiosis.
20. Label the following steps of Meiosis: <https://www.genome.gov/EdKit/pdfs/1902b2.pdf>



# Mitosis And Meiosis Webquest Biology Answer Key

**Gary Parker, W. Ann Reynolds, Rex  
Reynolds**



## **Mitosis And Meiosis Webquest Biology Answer Key:**

**Mitosis and Meiosis** ,1998-12-16 Mitosis and Meiosis details the wide variety of methods currently used to study how cells divide as yeast and insect spermatocytes higher plants and sea urchin zygotes With chapters covering micromanipulation of chromosomes and making expressing and imaging GFP fusion proteins this volume contains state of the art how to secrets that allow researchers to obtain novel information on the biology of centrosomes and kinetochores and how these organelles interact to form the spindle Chapters Contain Information On How to generate screen and study mutants of mitosis in yeast fungi and flies Techniques to best image fluorescent and nonfluorescent tagged dividing cells The use and action of mitoclastic drugs How to generate antibodies to mitotic components and inject them into cells Methods that can also be used to obtain information on cellular processes in nondividing cells Mitosis and Meiosis Veronica

Armstrong,2007-01-01 *All About Mitosis and Meiosis* Elizabeth Cregan,2007-12-14 Many organisms are multicellular which means they have many cells even trillions The cells work together to help the organism do things such as create energy reproduce and get rid of waste *Mitosis and Meiosis* Gary Parker,W. Ann Reynolds,Rex Reynolds,1968 **Meiosis**

**Science Learning Guide** NewPath Learning,2014-03-01 The Meiosis Creating Sex Cells Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts Sexual Reproduction Meiosis Overview DNA Replication Meiosis I Meiosis II Crossing over Comparing Mitosis Identifying Stages of Meiosis and Mitosis the Cell Cycle Aligned to Next Generation Science Standards NGSS and other state standards

*Meiosis and Mitosis* Jean Brachet,Alfred E. Mirsky,2014-05-10 The Cell Biochemistry Physiology Morphology Volume III Meiosis and Mitosis covers chapters on meiosis and mitosis The book discusses meiosis with regard to the meiotic behavior of chromosomes the anomalous meiotic behavior in organisms with localized centromeres and in forms with nonlocalized centromeres and the nature of the synaptic force The text also describes the mechanism of crossing over the relationship of chiasmata to crossing over and metaphase pairing and the reductional versus equational disjunction The process of mitosis and the physiology of cell division are also considered The book further tackles the significance of cell division and chromosomes the essential mitotic plan and its variants the preparations for mitosis and the transition period The text also demonstrates the time course of mitosis the mobilization of the mitotic apparatus metakinesis the metaphase the mitotic apparatus anaphase telophase cytokinesis and the physiology of the dividing cell Physiological reproduction mitotic rhythms and experimental synchronization and the blockage and stimulation of division are also encompassed Biologists microbiologists zoologists and botanists will find the book invaluable Mitosis and Meiosis Part A ,2018-05-24 Mitosis and Meiosis Part A Volume 144 a new volume in the Methods in Cell Biology series continues the legacy of this premier serial with quality chapters authored by leaders in the field Unique to this updated volume are chapters on Analyzing the Spindle

Assembly Checkpoint in human cell culture an Analysis of CIN a Functional analysis of the tubulin code in mitosis Employing CRISPR Cas9 genome engineering to dissect the molecular requirements for mitosis Applying the auxin inducible degradation AID system for rapid protein depletion in mammalian cells Small Molecule Tools in Mitosis Research Optogenetic control of mitosis with photocaged chemical and more Contains contributions from experts in the field from across the world Covers a wide array of topics on both mitosis and meiosis Includes relevant analysis based topics

**Cell Cycle MCQ (Multiple Choice Questions)** Arshad Iqbal, The Cell Cycle Multiple Choice Questions MCQ Quiz with Answers PDF Cell Cycle MCQ PDF Download Quiz Questions Practice Tests with Answer Key Class 9 Biology Questions Bank MCQs Notes includes revision guide for problem solving with solved MCQs Cell Cycle MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Cell Cycle MCQ PDF book helps to practice test questions from exam prep notes The Cell Cycle MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Cell Cycle Multiple Choice Questions and Answers MCQs PDF Free download sample a book covers solved quiz questions and answers on 9th grade biology topics Introduction to cell cycle chromosomes meiosis phases of meiosis mitosis significance of mitosis apoptosis and necrosis tests for high school students and beginners Cell Cycle Quiz Questions and Answers PDF free download eBook s sample covers exam s workbook interview questions and competitive exam prep with answer key The book Cell Cycle MCQs PDF includes high school question papers to review practice tests for exams Cell Cycle Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET Jobs Entry Level competitive exam Cell Cycle Practice Tests eBook covers problem solving exam tests from life science textbooks

Mitosis and Meiosis Part B ,2018-06-26 Mitosis and Meiosis Part B Volume 145 a new volume in the Methods in Cell Biology series continues the legacy of this premier serial with quality chapters authored by leaders in the field Unique to this updated volume are chapters on Mitotic live cell imaging at different time scales the characterization of mitotic spindle by multi mode correlative microscopy STED microscopy of mitosis Correlating light microscopy with serial block face scanning electron microscopy to study mitotic spindle architecture quantification of three dimensional spindle architecture Imaging based assays for mitotic chromosome condensation and dynamics and more Contains contributions from experts in the field from across the world Covers a wide array of topics on both mitosis and meiosis Includes relevant analysis based topics

Simplifying Mitosis and Meiosis Paul A. Adams,1978 *All about mitosis and Meiosis* Elizabeth R. C. Cregan,2007-12-14

**The Disagreement of Mitosis and Meiosis** Corey Nagle,2012 Cell Division Mitosis or Meiosis Trying to remember how a cell divides Confused by mitosis and meiosis This charming story of two cells Stemi and Stemly tells of the cells mission to make more cells and their disagreements over how to accomplish this goal Each cell describes a plan mitosis or meiosis and the resulting division Handy quick fact charts illustrations and a comparison of mitosis and meiosis are included at the end of the book This book is intended for a middle school or high

school basic life science audience The book looks at the basics of cellular division for producing body cells and gamete cells

**Understanding Meiosis and Mitosis** Stephanie Harris, 2021-11-16 Meiosis and mitosis are the processes of cell division that are studied in cell biology Meiosis is a type of cell division that is used to produce gametes like sperm or egg cells It is used by sexually reproducing organisms This process includes two rounds of cell division that leads to the formation of four cells with one copy of each chromosome Mitosis is the process in which chromosomes are replicated into two new nuclei This results in cells that are genetically identical and which retain the same number of chromosomes It is concerned with the transfer of parent cell's genome into two subsequent daughter cells The processes of meiosis and mitosis differ in two aspects These are recombination and the number of chromosomes The topics included in this book are of utmost significance and bound to provide incredible insights to readers Different approaches evaluations methodologies and studies related to this field have been included herein Coherent flow of topics student friendly language and extensive use of examples make this book an invaluable source of knowledge

**Molecular Regulation of Nuclear Events in Mitosis and Meiosis** R. A. Schlegel, 1962

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