

MITOSIS LAB

Name: _____

One of the basic tenets of biology is that all new cells come from living cells. These cells are formed by the process of cell division which includes both the division of the cell's nucleus (**karyokinesis**) and the division of the cell's cytoplasm (**cytokinesis**). Mitotic nuclear division typically results in two **daughter** (cloned) cells. All of the following processes are accomplished through mitotic cell division:

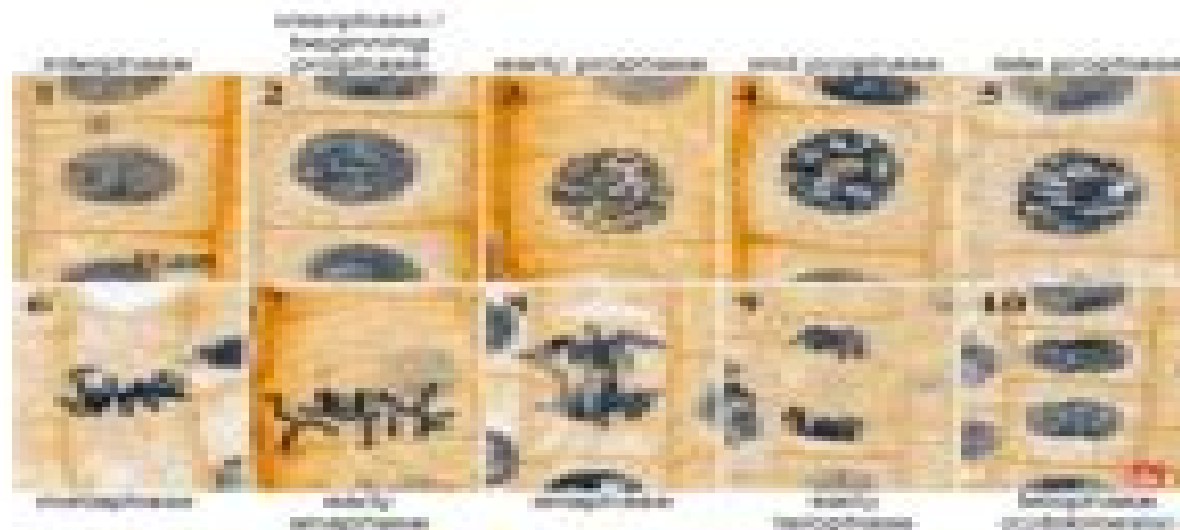
- Formation of an adult organism from a fertilized egg (oviparous)
- Asexual reproduction (as in the reproduction of bacteria)
- Regeneration (as in the regrowth of a starfish arm)
- Repair or maintenance of body parts (as in the healing of a wound or the replacement of epithelial tissue)
- Growth (as in growth in height of a tree or growth in size of a maturing animal)

Although, once it has started, mitosis is a continuous process, scientists have divided it into distinct stages for convenience and ease of study and understanding of the cellular events.

Directions:

1. In this lab, you will be using a compound microscope and a prepared slide of onion root tips to identify the stages of mitosis.
2. Once you have focused the image, you may begin to identify the stage of each cell in your field of view. Try to identify at least one cell in every stage of mitosis. Allow all group members to identify the stages.

Stages of mitosis in Onion Root Tip Cells:



Mitosis Lab Teachers Guide

Addison Wesley

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the light blue horizontal bar.

Mitosis Lab Teachers Guide:

Cambridge IGCSE® Biology Practical Teacher's Guide with CD-ROM Matthew Broderick, 2016-01-04 This edition of our successful series to support the Cambridge IGCSE Biology syllabus 0610 is fully updated for the revised syllabus for first examination from 2016 The Cambridge IGCSE Biology Practical Teacher's Guide complements the Practical Workbook helping teachers to include more practical work in lessons Specific support is provided for each of the carefully designed investigations to save teachers time The Teacher's Guide contains advice about planning investigations guidance about safety considerations differentiated learning suggestions to support students who might be struggling and to stretch the students who are most able as well as answers to all the questions in the Workbook The Teacher's Guide also includes a CD ROM containing model data to be used in instances when an investigation cannot be carried out *Biology*, 1999 **Teacher's Wraparound Edition: Two Biology Everyday Experience** Albert Kaskel, 1994-04-19 **Justice-Oriented Science Teaching and Learning** David Steele, Alison K. Mercier, 2025-02-21 This textbook provides K 12 science teachers and educators innovative uses of anchoring phenomenon based teaching approaches from a justice oriented lens Morales Doyle 2017 It discusses topics such as the use of anchoring phenomenon based pedagogies qualities of productive anchoring phenomena and includes examples of unit plans that use anchoring phenomena and social justice science issues to create storylines to foster students multiple pathways to knowing and learning in the science classrooms The book is beneficial to K 12 science teachers and science educators who are interested in facilitating students sense making of a real world phenomenon and engaging in three dimensional science instruction NGSS Lead States 2013 By providing examples of unit plans based on theoretical groundings of anchoring phenomenon based instruction and justice oriented science teaching this book provides a great resource to students professionals teachers and academics in science education **Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity

books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents Library of

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