



Student Exploration: Cell Division

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Cells reproduce by splitting in half, a process called **cell division**. What do cells need to do between divisions to make sure that they don't just get smaller and smaller?

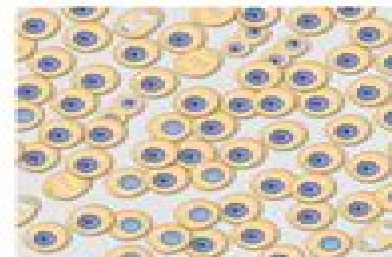
The cells need to grow in between their cell divisions so they don't get smaller and smaller.

2. The genetic information of a cell is carried in its **DNA** (short for deoxyribonucleic acid). What do cells need to do between divisions to make sure that a full set of DNA gets passed on to each daughter cell?

The cells need to make a copy of their DNA (double it), so a full set gets passed on to each daughter cell.

Gizmo Warm-up

On the **SIMULATION** pane of the *Cell Division* Gizmo, check that the **Cycle Length** is set to 12 hours. Click **Play** (▶), observe until the maximum number of cells is shown, and then click **Pause** (⏸).



1. Look at the cells. Do they all look the same?

yes

2. Cells that are in the process of dividing are said to be in **mitosis** or **cytokinesis**. Cells that are not dividing are in **interphase**.

Check the **Magnify** box and move the cursor over the cells.

- A. Of the 100 cells shown, how many are in the process of dividing?

Approximately fourteen are in the process of dividing.

- B. Select the **BAR CHART** tab, and turn on **Show numerical values**. How many cells are in the interphase stage of their life cycle?

80

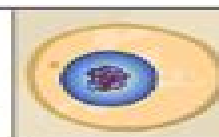
- C. Based on these two observations, would you say that a cell spends most of its life cycle in interphase or in mitosis/cytokinesis?

Interphase

Activity A:
Phases of the cell cycle

Get the Gizmo ready:

- Click **Reset** (↺).
- Select the **DESCRIPTION** tab.
- Click on the right arrow once so that **Interphase** is shown.



Student Exploration Gizmo Answers Cell Division

Anne Wanjie



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Cost Management Leslie G. Eldenburg, Susan K. Wolcott, Liang-Hsuan Chen, Gail Cook, 2016-03-28 Cost Management Measuring Monitoring and Motivating Performance Third Canadian Edition was written to help students learn to appropriately apply cost accounting methods in a variety of organizational settings To achieve this goal students must also develop professional competencies such as strategic critical thinking risk analysis decision making ethical reasoning and communication This is in line with the CPA curriculum and the content of this edition and the problem materials is mapped to the CPA Many students fail to recognize the assumptions limitations behavioural implications and qualitative factors that influence managerial decision making The textbook is written in an engaging step by step style that is accessible to students The authors are proactive about addressing the challenges that instructors and students face in their teaching and learning endeavors They utilize features such as realistic examples real ethical dilemmas self study problems and unique problem material structured to encourage students to think about accounting problems and problem solving more complexly **Cell Division and Genetics** Robert Snedden, 2007-08-25 Discusses cell division DNA chromosomes and genes including how these factors decide what will become of a cell **Cell Division & Genetics** Robert Snedden, 2003-03-01 **Two from One** Michael Polymenis, 2022-12-19 TWO FROM ONE Condensed and easy step in resource to the vast universe of cell cycle control and cell division Two from One A Short Introduction to Cell Division Mechanisms is an easy and solid step in for students and all individuals starting to learn about cell and molecular biology as well as professionals looking for an avenue into the subject emphasizing general concepts and universal aspects of eukaryotic cell division without getting lost in the vast amount of detail across the overall field The text enables readers to learn about general concepts and discoveries from various systems and approaches to elucidate the process of cell division with descriptions of scientific processes included throughout in order to aid in reader comprehension The content and material have been taught revised and simplified based on student feedback to be as accessible as possible to a broader audience It can be read in a few hours by anyone with an interest in the topic and an undergraduate background In Two from One readers can expect to find coverage on a myriad of essential topics such as Cell theory mitosis chromosome theory of heredity DNA and why how cell cycles come in many flavors Cell growth and division covering balanced growth and cell proliferation measures of cell growth and the relationship between cell growth and division Assaying cell cycle progression covering measuring cell cycle phases single cell imaging labeled mitoses and frequency distributions Duplicating the genome covering DNA replication origin firing chromatin checkpoints and the DNA damage checkpoint Undergraduates graduate students and early career professionals in cell biology biomedicine and biology along with post docs changing subject area or needing further information on cell division will find Two from One to be an immensely useful accessible and reader friendly resource in a traditionally highly complex field **Cell Machinery** Robert Leftwich, 1970-09-01 Color Overheads Included Cell Machinery includes 12 full color

transparencies 12 reproducible pages four pages of test material as well as a richly detailed teacher's guide Among the topics covered are the invention and evolution of the microscope and its effect on cell study the structure of basic plant and animal cells cell division and the functions of the various elements of the cell 26 pages 12 transparencies **A Cell's Opportunity** Shahab Sharifian, 2008-10-22 Learning scientific processes can be difficult but it doesn't have to be A Cell's Opportunity by high school student Shahab Sharifian explores the cell process of mitosis in a way that children and young adults can understand In this book a young cell named George must work hard to earn his spot on the national cell soccer team As the cell trains struggles and finally is ready for his tryout for the team readers will learn how the complex process of mitosis really works Educational and realistic A Cell's Opportunity covers all the stages of mitosis including interphase prophase metaphase anaphase telophase and cytokinesis Science vocabulary like DNA and chromosomes is also covered and the book is peppered with helpful diagrams Written clearly and simply A Cell's Opportunity is a clever way for readers to remember a very complex process in an easy and enjoyable way **The Basics of Cell Biology** Anne Wanjie, 2013-07-15 This text provides readers with a comprehensive study of the mechanics of cell biology that aligns with Core Curriculum requirements in science Topics covered range from the different types of cells plant and animal eukaryote and prokaryote and stem cells to the components of the cell such as the cell wall DNA and plasma to cell locomotion and the cell cycle including cell division mitosis and meiosis Finally the topic of cancer when cells divide uncontrollably is addressed In conclusion the title offers a biography section of the pioneers of DNA research Francis Crick Rosalind Franklin and James Watson whose research led us to understand the structure of DNA Along with authoritative content this title offers eye catching and informative images and illustrations to help keep readers engaged Cell Division, 2013 G7U5 Cell Division Student Lab Manual KnowAtom LLC, 2022-07 *Cell and Cell Division* Николай Ненов Николов, 2002 Contents include The cell life link Formation of scientific concepts on the origin of life Tracing life on earth Is there life in the universe Later concepts on the structural organization of the cell Discovery of the discrete factors of heredity Discovery of nuclein and elucidation of the biological role of nucleic acids Modern concepts about the structure functions and reproduction of the cells Cell wall and cell membranes Fund and diversity of living organisms Molecular bases and mechanisms of the mutation changes Endosymbiotic organization of the eukaryotic cells The nucleus or the nuclear equivalent Modes of types of cell divisions Causes for starting or stopping of the cell division Biological aging and neoplasms

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