

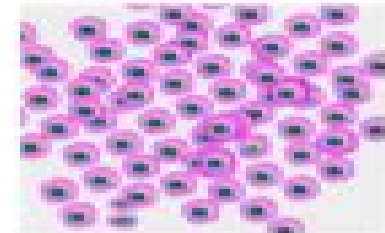
Name: _____

Class: _____

Student Exploration: Cell Division

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? _____
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? _____
- B. Select the **BAR CHART** tab, and turn on **Show numerical values**. How many cells are in the interphase stage of their life cycle? _____
- C. Based on these two observations, would you say that a cell spends most of its life cycle in interphase or in mitosis? _____

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.



Question: What are the stages of the cell cycle?

1. **Observe:** Click **Play** and hold the cursor over the cell. Observe the cell as it divides several times. (This happens quickly!) Observe the following during this process:

***Notice the material in the cell nucleus being up and then splitting apart as two cells form.*

2. **Summarize:** On the **DESCRIPTION** pane, read about each phase in the cell cycle. In the spaces below, summarize what occurs in your own words.

Phase	Sketch	Summary
Interphase		The cell _____ is copied, and new _____ synthesize/form.
Prophase		Chromosomes are formed from chromatin, and the nuclear _____ dissolves. Spindle _____ form between the centrioles.

The Great Divide Cell Division Answer Key

Anne Tweed



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of competing theories in play But scientific consensus is forming around the telomere theory of aging The essence of this theory is that human aging is the result of cellular aging Every time a cell reproduces its telomeres the tips of the chromosomes shorten With every shortening of the telomeres the cell's ability to repair its molecules decreases It ages Human aging is the result of the aging of the body's trillions of cells But some of our cells don't age Sex cells and stem cells can reproduce indefinitely without aging because they create telomerase Telomerase re-lengthens the telomeres keeping these cells young The Telomerase Revolution describes how telomerase will soon be used as a powerful therapeutic tool with the potential to dramatically extend life spans and even reverse human aging Telomerase based treatments are already available and have shown early promise but much more potent treatments will become available over the next decade The Telomerase Revolution is the definitive work on the latest science on human aging covering both the theory and the clinical implications It takes the reader to the forefront of the upcoming revolution in human medicine

The Big Basics Book of Microsoft Office 97 Jennifer Fulton, Joe Kraynak, Sherry Kinkoph, 1997 Microsoft's flagship desktop application suite allows users to interact seamlessly over networks and now features many improvements over the previous version This book teaches the reader how to get to grips with it as quickly as possible

Solutions Manual for An Introduction to Genetic Analysis David Scott, 2012 Since its inception Introduction to Genetic Analysis IGA has been known for its prominent authorship including leading scientists in their field who are great educators This market best seller exposes students to the landmark experiments in genetics teaching students how to analyze experimental data and how to draw their own conclusions based on scientific thinking while teaching students how to think like geneticists Visit the preview site at www.whfreeman.com/IGA10epreview

Designing Effective Science Instruction Anne Tweed, 2009

Understanding Microbes Jeremy W. Dale, 2012-11-20 We can't see them but microbes are the dominant form of life on Earth They make up half of the world's biomass They were here billions of years before we were and they will be here after we are gone Without their activity life as we know it would be impossible Even within our own bodies there are ten times as many bacterial cells as human cells Understanding Microbes provides a clear accessible introduction to this world of microbes As well as looking at a selection of infectious diseases including how they are prevented and treated the book explores the importance of microbes in the environment in the production and preservation of food and their applications in biotechnology This lively and engaging book provides the basics of microbiology in a contemporary context It will be equally useful for students across the biological environmental and health sciences and for the curious reader wanting to learn more about this fascinating subject A highly readable concise introduction to the basics of microbiology placed in the context of the very latest developments in molecular biology and their impact on the microbial world Numerous real world examples range from how cows digest grass to the role of microbes in cancer and the impact of climate change Well illustrated in full colour throughout Written by an Author with a proven track record in teaching writing and research

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