

WS Cell Division Gizmo

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Student Exploration: Cell Division

Vocabulary: cell division, centriole, centromere, chromatid, chromatin, chromosome, cytokinesis, DNA, interphase, mitosis

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

 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?

They need to grow.

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 DNA has to be copied so there is a full set of DNA to pass 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? no
- 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? About 5
- B. Select the BAR CHART tab, and turn on Show numerical values. How many cells are in the interphase stage of their life cycle? About 80
- C. Based on these two observations, would you say that a cell spends most of its life

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Table of Contents Teacher Guide Gizmo Cell Division Answer Key

- 1. Understanding the eBook Teacher Guide Gizmo Cell Division Answer Key
 - The Rise of Digital Reading Teacher Guide Gizmo Cell Division Answer Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Teacher Guide Gizmo Cell Division Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Teacher Guide Gizmo Cell Division Answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Teacher Guide Gizmo Cell Division Answer Key
 - Personalized Recommendations
 - $\circ\,$ Teacher Guide Gizmo Cell Division Answer Key User Reviews and Ratings
 - Teacher Guide Gizmo Cell Division Answer Key and Bestseller Lists
- 5. Accessing Teacher Guide Gizmo Cell Division Answer Key Free and Paid eBooks
 - o Teacher Guide Gizmo Cell Division Answer Key Public Domain eBooks
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- Teacher Guide Gizmo Cell Division Answer Key Budget-Friendly Options
- 6. Navigating Teacher Guide Gizmo Cell Division Answer Key eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Teacher Guide Gizmo Cell Division Answer Key Compatibility with Devices
 - Teacher Guide Gizmo Cell Division Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Teacher Guide Gizmo Cell Division Answer Key
 - Highlighting and Note-Taking Teacher Guide Gizmo Cell Division Answer Key
 - Interactive Elements Teacher Guide Gizmo Cell Division Answer Key
- 8. Staying Engaged with Teacher Guide Gizmo Cell Division Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Teacher Guide Gizmo Cell Division Answer Key
- 9. Balancing eBooks and Physical Books Teacher Guide Gizmo Cell Division Answer Key
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Teacher Guide Gizmo Cell Division Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Teacher Guide Gizmo Cell Division Answer Key
 - Setting Reading Goals Teacher Guide Gizmo Cell Division Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Teacher Guide Gizmo Cell Division Answer Key
 - Fact-Checking eBook Content of Teacher Guide Gizmo Cell Division Answer Key
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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