



## 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?

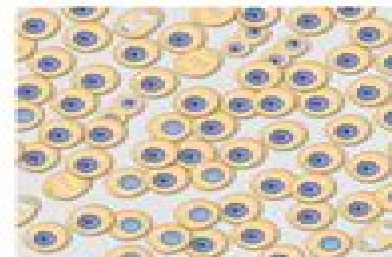
The cells need to grow in between their cell divisions so they don't get smaller and smaller.

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

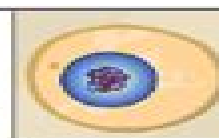
- C. Based on these two observations, would you say that a cell spends most of its life cycle in interphase or in mitosis/cytokinesis?

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.



# Explore Learning Student Exploration Cell Division Gizmo Answers

**JG Myers**



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## **Table of Contents Explore Learning Student Exploration Cell Division Gizmo Answers**

1. Understanding the eBook Explore Learning Student Exploration Cell Division Gizmo Answers
  - The Rise of Digital Reading Explore Learning Student Exploration Cell Division Gizmo Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Student Exploration Cell Division Gizmo Answers
  - 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 Explore Learning Student Exploration Cell Division Gizmo Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Student Exploration Cell Division Gizmo Answers
  - Personalized Recommendations
  - Explore Learning Student Exploration Cell Division Gizmo Answers User Reviews and Ratings
  - Explore Learning Student Exploration Cell Division Gizmo Answers and Bestseller Lists
5. Accessing Explore Learning Student Exploration Cell Division Gizmo Answers Free and Paid eBooks

- Explore Learning Student Exploration Cell Division Gizmo Answers Public Domain eBooks
  - Explore Learning Student Exploration Cell Division Gizmo Answers eBook Subscription Services
  - Explore Learning Student Exploration Cell Division Gizmo Answers Budget-Friendly Options
6. Navigating Explore Learning Student Exploration Cell Division Gizmo Answers eBook Formats
    - ePub, PDF, MOBI, and More
    - Explore Learning Student Exploration Cell Division Gizmo Answers Compatibility with Devices
    - Explore Learning Student Exploration Cell Division Gizmo Answers Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Explore Learning Student Exploration Cell Division Gizmo Answers
    - Highlighting and Note-Taking Explore Learning Student Exploration Cell Division Gizmo Answers
    - Interactive Elements Explore Learning Student Exploration Cell Division Gizmo Answers
  8. Staying Engaged with Explore Learning Student Exploration Cell Division Gizmo Answers
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Explore Learning Student Exploration Cell Division Gizmo Answers
  9. Balancing eBooks and Physical Books Explore Learning Student Exploration Cell Division Gizmo Answers
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Explore Learning Student Exploration Cell Division Gizmo Answers
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Explore Learning Student Exploration Cell Division Gizmo Answers
    - Setting Reading Goals Explore Learning Student Exploration Cell Division Gizmo Answers
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Explore Learning Student Exploration Cell Division Gizmo Answers
    - Fact-Checking eBook Content of Explore Learning Student Exploration Cell Division Gizmo Answers
    - 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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