



## 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

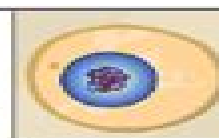
- C. Based on these two observations, would you say that a cell spends most of its life cycle in interphase or in mitosis/cytokinesis?

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 Cell Division Answer Key

**Debra Jan Bibel**



## Student Exploration Cell Division Answer Key:

*The Software Encyclopedia*, 1988      **The American Biology Teacher**, 1938 Includes section Books      The Search for Solutions Teaching Guide (abridged) Illinois State Board of Education (1973- ), 1980      **Biology**, 1986      **Microcomputer Software Directory**, 1983      InfoWorld, 1982-02-22 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects      *Abstracts of the ... General Meeting of the American Society for Microbiology* American Society for Microbiology. General Meeting, 2008      **Report** CIC Panel on Research and Development of Instructional Resources, Committee on Institutional Cooperation, 1973

**Development and Experiment in College Teaching** CIC Panel on Research and Development of Instructional Resources, 1981 Each issue includes cumulative subject index      *Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards*, 2008      New York Magazine, 1997-04-28 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine's consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea      **Working Mother**, 2002-10 The magazine that helps career moms balance their personal and professional lives

**Bulletin of the Atomic Scientists**, 1967-03 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world      **Data Sources**, 2000      *Excel for Windows 95 Unleashed* Paul McFedries, 1995 Designed for intermediate to advanced level business and power users this book provides thorough coverage of what's new in the latest version of Excel software including VBA objects and data analysis wizardry The CD ROM contains templates VBA macros sample applications designed in Excel and several add in third party applications      *Excel 97 Annoyances* Woody Leonhard, Lee Hudspeth, T. J. Lee, Timothy-James Lee, 1997 Aimed at users who prefer to use Excel in the most effective way possible this title shows how to shape Excel 97 in a way that will not only make it most effective but will allow readers to experience a sense of enjoyment as they analyze data with ease      **Popular Mechanics**, 2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle      *American Vocational Journal*, 1970      *PC/Computing*, 1998      *Milestones in Immunology* Debra Jan Bibel, 1988

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