

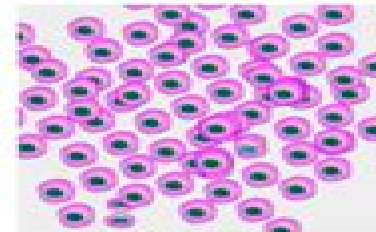
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Student Exploration: Cell Division

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**.

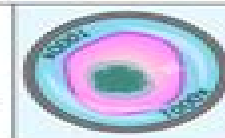
Check the **Magnify** box and move the cursor over the cells.

- 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 lining 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.

Cell Division Gizmo Worksheet Answer Key

Marco Cascella

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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