



Name: \_\_\_\_\_

Date: \_\_\_\_\_

## 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.)

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?

Cells must grow in between divisions.

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?

Cells must double their DNA in order to pass a full set 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
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? 1
- B. Select the BAR CHART tab, and turn on **Show numerical values**. How many cells are in the interphase stage of their life cycle? 82
- 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



# Explore Learning Student Exploration Element Builder Answer Key

**Michael Brown**



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