



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 Element Builder Answer Key

**Hongru Du**



## **Explore Learning Element Builder Answer Key:**

## Adopting the Beat of Term: An Emotional Symphony within **Explore Learning Element Builder Answer Key**

In some sort of consumed by screens and the ceaseless chatter of instant transmission, the melodic beauty and mental symphony produced by the prepared word frequently diminish into the background, eclipsed by the relentless noise and disturbances that permeate our lives. But, situated within the pages of **Explore Learning Element Builder Answer Key** a charming literary treasure filled with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this captivating masterpiece conducts visitors on a psychological journey, well unraveling the concealed songs and profound influence resonating within each carefully constructed phrase. Within the depths of the touching assessment, we will examine the book is central harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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