



Name:

Date:

Student Exploration: Cell Division

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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?

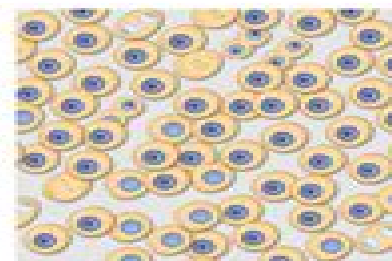
They need to grow

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 DNA must be copied so there is a full set of DNA to pass 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?

20

- 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

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