



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?

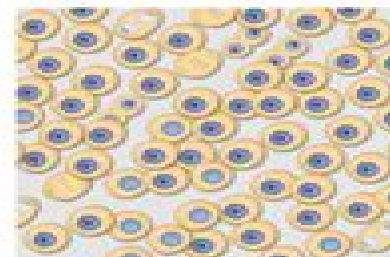
The cells need to grow in between their cell divisions so they don't get smaller and smaller.

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

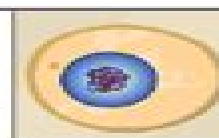
- C. Based on these two observations, would you say that a cell spends most of its life cycle in interphase or in mitosis/cytokinesis?

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.



Gizmo Worksheet Answers

Yan Bai

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

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