



Name:

Date:

Student Exploration: Cell Division

TRY AND USE A DIFFERENT COLOURED FONT WHILE COMPLETING THIS LAB. WHEN YOU ARE FINISHED THE GIZMO, PLEASE COMPLETE THE FIVE QUESTION QUIZ AT THE BOTTOM OF THE PAGE. IT WILL BE INCLUDED IN YOUR MARK.

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 need to grow in size and double their genetic material.

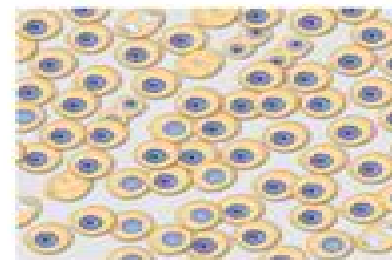
2. The genetic information of a cell is carried in its **DNA** (short for deoxyribonucleic acid). What do cells need to do between divisions to make sure that a full set of DNA gets passed on to each daughter cell?

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. Do all the cells look the same? All of the cells do not 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? Approximately 15 cells 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? Nearly 80 cells are in the interphase stage of their life cycle.

Student Exploration Cell Division Answer

Camilla Rothe



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