

Name: **Aditya Sharma**Date: **April 08, 2020**

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?

In between cell division the cells go through the interphase stage. This includes the G1 phase, the S phase and the G2 phase. In the G1 phase the cell is growing and starting to get ready to replicate DNA. In the S phase the DNA is replicated and in the G2 phase the cell prepares to divide. Cells spend most of their life in this stage.

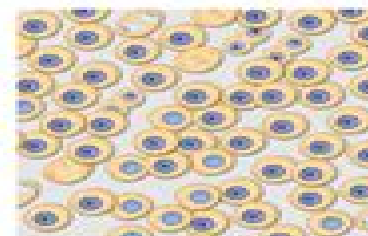
2. The genetic information of a cell is carried in its **DNA** (short for deoxyribonucleic acid). What do cells need to do between divisions to make sure that a full set of DNA gets passed on to each daughter cell?

The cells have to synthesize (replicate) their DNA which is done in the S phase of interphase.

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? **22**
- B. Select the **BAR CHART** tab, and turn on **Show numerical values**. How many cells are in the interphase stage of their life cycle? **78**

Gizmos Student Exploration Cell Division Key

M Carnoy



Gizmos Student Exploration Cell Division Key:

Gizmos Student Exploration Cell Division Key Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Gizmos Student Exploration Cell Division Key**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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