



WS Cell Division Gizmo

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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?

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 has to 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? **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? **About 5**
- B. Select the BAR CHART tab, and turn on **Show numerical values**. How many cells are in the interphase stage of their life cycle? **About 80**
- C. Based on these two observations, would you say that a cell spends most of its life

Gizmo Answer Key Cell Division

Robert Snedden

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

Gizmo Answer Key Cell Division:

InfoWorld, 1982-02-22 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects *Cell Division and Genetics* Robert Snedden, 2008-05-01 Cells Life is a series of illustrated textbooks for pupils working at secondary level The individual volumes introduce the structures and processes of cells and address topics such as cell division genes DNA chromosomes and genetic engineering

MCQs in Cell Biology Kunal P. Deshmukh, Yeshwant D. Deshmukh, 2018-07-21 1 Life originated in Air Soil
Mountains Water 2 The first organism existed on the earth was a Photoautotrophsb Photoheterotrophsc Chemoautotrophsd
Chemoheterotrophs *Cell Division & Genetics* Robert Snedden, 2003-03-01

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