



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

Answers For Cell Division Gizmo

Liying Dong

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.

Answers For Cell Division Gizmo:

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 **New Scientist** ,2007 **Cost Management** Leslie G. Eldenburg,Susan K. Wolcott,Liang-Hsuan Chen,Gail Cook,2016-03-28 Cost Management Measuring Monitoring and Motivating Performance Third Canadian Edition was written to help students learn to appropriately apply cost accounting methods in a variety of organizational settings To achieve this goal students must also develop professional competencies such as strategic critical thinking risk analysis decision making ethical reasoning and communication This is in line with the CPA curriculum and the content of this edition and the problem materials is mapped to the CPA Many students fail to recognize the assumptions limitations behavioural implications and qualitative factors that influence managerial decision making The textbook is written in an engaging step by step style that is accessible to students The authors are proactive about addressing the challenges that instructors and students face in their teaching and learning endeavors They utilize features such as realistic examples real ethical dilemmas self study problems and unique problem material structured to encourage students to think about accounting problems and problem solving more complexly *Steel* ,1957 Tragediia sovetskoi derevni ,1999 **Cell Division & Genetics** Robert Snedden,2002 Looks at the relationship between chromosomes genes and DNA as well as how and why cells divide The Cell Division Cycle David Lloyd,Robert K. Poole,Steven W. Edwards,1982 *Cell Division and the Mitotic Cycle* George Bernard Wilson,1966 **Multiplication and Division in Mammalian Cells** Renato Baserga,1976 **Cell Growth and Cell Division** International Society for Cell Biology,1963

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Answers For Cell Division Gizmo Introduction

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