



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

Answer Key To Cell Division Gizmo

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Answer Key To Cell Division Gizmo:

This book delves into Answer Key To Cell Division Gizmo. Answer Key To Cell Division Gizmo is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Answer Key To Cell Division Gizmo, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answer Key To Cell Division Gizmo
 - Chapter 2: Essential Elements of Answer Key To Cell Division Gizmo
 - Chapter 3: Answer Key To Cell Division Gizmo in Everyday Life
 - Chapter 4: Answer Key To Cell Division Gizmo in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Answer Key To Cell Division Gizmo. The first chapter will explore what Answer Key To Cell Division Gizmo is, why Answer Key To Cell Division Gizmo is vital, and how to effectively learn about Answer Key To Cell Division Gizmo.
 3. In chapter 2, the author will delve into the foundational concepts of Answer Key To Cell Division Gizmo. The second chapter will elucidate the essential principles that must be understood to grasp Answer Key To Cell Division Gizmo in its entirety.
 4. In chapter 3, the author will examine the practical applications of Answer Key To Cell Division Gizmo in daily life. This chapter will showcase real-world examples of how Answer Key To Cell Division Gizmo can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Answer Key To Cell Division Gizmo in specific contexts. The fourth chapter will explore how Answer Key To Cell Division Gizmo is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Answer Key To Cell Division Gizmo. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Answer Key To Cell Division Gizmo.

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