



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.

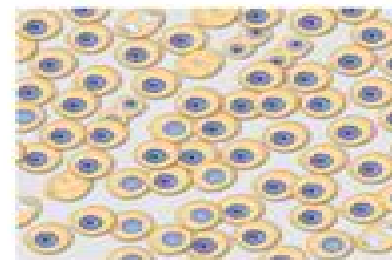
2. The genetic information of a cell is carried in its **DNA** (short for deoxyribonucleic acid). What do cells need to do between divisions to make sure that a full set of DNA gets passed on to each daughter cell?

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 Packet

Roman Wölfel



Student Exploration Cell Division Packet:

Does Hands-on Learning Improve Student Learning Outcomes? Matthew David Rice, 2008 **Biology** ,1986 *Tutorial, Object-oriented Computing: Implementations* Gerald E. Peterson, 1987 Volume 2 **Microcomputer Software Directory** ,1983 **College Admissions Data Sourcebook Northeast Edition Looseleaf 2010-11** ,2010-09 The Software Encyclopedia ,1988 **A Guide to Undergraduate Science Course and Laboratory Improvements** National Science Foundation (U.S.). Directorate for Science Education, 1979 **Resources in Education** ,1987-10 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1964 Includes Part 1 Number 2 Books and Pamphlets Including Serials and Contributions to Periodicals July December R.R. Bowker's Software for Schools ,1987 BioQUEST Library ,2002 **Black Issues in Higher Education** ,2001-09 **Current Index to Journals in Education** ,2000-10 Working Mother ,2002-10 The magazine that helps career moms balance their personal and professional lives **Commerce Business Daily** ,1999-11 **The Scientist** ,1994 *Spring Meeting* American Geophysical Union. Meeting, 1993 *Comprehensive Dissertation Index, 1861-1972: Author index* Xerox University Microfilms, 1973 **Engineering Design Graphics Journal** ,2000 **Popular Mechanics** ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle

Decoding **Student Exploration Cell Division Packet**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Student Exploration Cell Division Packet**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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