

Explorable Learning

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?
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?

**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** (⏸).

3. Look at the cells. Do they all look the same? \_\_\_\_\_



4. 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? \_\_\_\_\_
- b. Select the **BAR CHART** tab, and turn on **Show numerical values**. How many cells are in the interphase stage of their life cycle? \_\_\_\_\_
- c. Based on these two observations, would you say that a cell spends most of its life cycle in interphase or in mitosis/cytokinesis? \_\_\_\_\_

**Question: What are the stages of the cell cycle?**

<p><b>Activity A:</b></p> <p><b>Phases of the cell cycle</b></p>	<p>Get the Gizmo ready:</p> <ul style="list-style-type: none"> <li>• Click <b>Reset</b> (↺).</li> <li>• Select the <b>DESCRIPTION</b> tab.</li> <li>• Click on the right arrow once so that <b>Interphase</b> is shown.</li> </ul>	
	<p>5. <b>Observe:</b> Click <b>Play</b> and hold the cursor over the cell. Observe the cell as it divides several times. (This happens quickly!) What do you notice happening during this process?</p> <p>6. <b>Summarize:</b> On the <b>DESCRIPTION</b> pane, read about each phase in the cell cycle. In the spaces below, sketch the cell in each phase and summarize what occurs in your own words.</p>	



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# Student Exploration Gizmo Answer Key

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### **Student Exploration: Germination (ANSWER KEY)**

Exploration Triple Beam Balance Gizmo Key. May 7, 2017 - by Arfan - Leave a Comment. Science articles page 11 of 15 explorelearning news exploration triple beam balance key pages triplebeamse name date exploration triple beam triple beam balance worksheet s gizmo fill why gizmos work. Triplebeamse Name Date Exploration Triple Beam . Practice Using The Balance In Triple Beam Gizmo. Triplebeamse ...

### **Student Exploration Triple Beam Balance Gizmo Answer Key ...**

Student Exploration: Mystery Powder Analysis. Vocabulary: Biuret solution, iodine solution, litmus paper, vinegar . Prior Knowledge Questions (Do these BEFORE using

the Gizmo.) A white powder is found spilled on the kitchen floor of a crime scene. A similar powder is found on the shoes of a suspect in the crime. 1. What are some powders that you might find on the kitchen floor? \_\_\_\_\_ 2 ...

### **Student Exploration: Mystery Powder Analysis**

Displaying top 8 worksheets found for - Cell Types Gizmos Answer Key. Some of the worksheets for this concept are Explorelearning student exploration cell structure answer, Student exploration cell types, Teacher guide gizmo cell division answer key ebook, Cell structure exploration activities, Student exploration stoichiometry gizmo answer key pdf, Student exploration dichotomous keys gizmo ...

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### **Gizmo Student Exploration Growing Plants Answer Key**

Student Exploration- Triple Beam Balance (answers) Prior Knowledge Questions (Do these BEFORE using the Gizmo .) A lever is a long beam that is set on a pointed fulcrum... www.thestudentsoffortune ...

### **Student Exploration- Triple Beam Balance (answers) | by ...**

Title: Student Exploration- Trebuchet (ANSWER KEY), Author: dedfsf dgdgfdgd, Name: Student Exploration- Trebuchet (ANSWER KEY), Length: 6 pages, Page: 1, Published: 2019-09-02 . Issuu company logo ...

### **Student Exploration- Trebuchet (ANSWER KEY) by dedfsf ...**

Student Exploration: Growing Plants (answer key) Download Student Exploration: Growing Plants Answer Key Vocabulary: compost, fertilizer, mass, seed, soil, variable Prior Knowledge Questions (Do these BEFORE using the Gizmo.) 1.What do you think plants need to grow and stay healthy? 2.Soil is a combination of tiny rock fragments and decayed plant materials.

### **Student Exploration- Growing Plants (answer key).docx ...**

Student Exploration: Rock Cycle. Vocabulary: deposition, erosion, extrusive igneous rock, intrusive igneous rock, lava, lithification, magma, metamorphic rock, rock cycle, sediment, sedimentary rock, soil, weathering . Prior Knowledge Questions (Do these BEFORE using the Gizmo.) 1. What happens to hot lava after it erupts from a volcano

### **Student Exploration: Rock Cycle - Hannah's Science Corner**

Student Exploration: Solar System (ANSWER KEY) Download Student Exploration: Solar System Vocabulary: atmosphere, ellipse, gas giant, gravity, inner planet, orbit,

outer planet, planet, rocky planet, solar system, year Prior Knowledge Questions (Do these BEFORE using the Gizmo.) Name all the planets you can think of. What object is at the center of the solar system What force keeps the planets ...

### **Student Exploration- Solar System (ANSWER KEY).docx ...**

Student Exploration: Element Builder. Vocabulary: atom, atomic number, electron, electron dot diagram, element, energy level, ion, isotope, mass number, neutron, nucleus, periodic table, proton, radioactive, valence electrons . Prior Knowledge Questions (Do these BEFORE using the Gizmo.) 1. What are some of the different substances that make up ...

### **Student Exploration: Element Builder - Weebly**

Virus Lytic Cycle Answer Key Vocabulary: bacteriophage, capsid, host cell, lyse, lytic cycle, virus Prior Knowledge Questions (Do these BEFORE using the Gizmo.) [Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

### **Virus Lytic Cycle Answer Key Vocabulary**

Title: Student Exploration- Disease Spread (ANSWER KEY), Author: dedfsf dgdgfdgd, Name: Student Exploration- Disease Spread (ANSWER KEY), Length: 4 pages, Page: 1, Published: 2019-09-02 . Issuu ...

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