

ExplorLearning

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>Activity A:</p> <p>Phases of the cell cycle</p>	<p>Get the Gizmo ready:</p> <ul style="list-style-type: none"> • Click Reset (↺). • Select the DESCRIPTION tab. • Click on the right arrow once so that Interphase is shown. 	
	<p>5. Observe: Click Play 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. Summarize: On the DESCRIPTION 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 Cell Division Answers

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Student Exploration Cell Division Answers

Name: _____ Class: _____ Student Exploration: Cell Division 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? _____ 2. Cells that are in the process of dividing are said to be in mitosis ...

Student Exploration: Cell Division - Studyres

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

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3_1-CellDivision - Student Exploration Cell Division ...

Student Exploration Cell Types Key Worksheets - there are 8 printable worksheets for this topic. Worksheets are Gizmo answer key student exploration...

Student Exploration Cell Types Key Worksheets - Teacher ...

Cell Division Answer Key Vocabulary: cell division, centriole, centromere, chromatid, chromatin, chromosome, cytokinesis, DNA, interphase, mitosis 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.]

75 - Cell Division Answer Key Vocabulary cell division ...

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 ...

Cell Types Gizmos Answer Key Worksheets - Learny Kids

Abnormal cell division during meiosis can lead to genetic disorders. Trisomy 21 (Down syndrome), for example, occurs when there is an extra copy of chromosome 21 in one of

the sex cells.

Student Exploration- Meiosis (ANSWER KEY) by dedfsf ...

Begin with a single cell and watch as mitosis and cell division occurs. The cells will go through the steps of interphase, prophase, metaphase, anaphase, telophase, and cytokinesis. The length of the cell cycle can be controlled, and data related to the number of cells present and their current phase can be recorded.

Cell Division Gizmo : ExploreLearning

Cell Division Gizmo. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. bridgetzecher. Key Concepts: Terms in this set (19) What do cells need to do between divisions to make sure that they don't just get smaller and smaller? Cells must grow in between divisions . What do cells need to do between divisions to make sure that a full set of DNA gets passed on to each ...

Cell Division Gizmo Flashcards | Quizlet

5 Questions Show answers. Question 1 . SURVEY . 30 seconds . Report question . Q. Place the four images from the cell cycle in the correct chronological order. answer choices . A-D-B-C. C-D-B-A. C-B-A-D. B-C-D-A. Tags: Question 2 . SURVEY . 30 seconds . Report question . Q. During which phase does the cell actually separate into two individual daughter cells? answer choices . Prophase ...

Cell Division Gizmo | Science Quiz - Quizizz

Student Exploration: Cell Division. 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? _____ 2. Cells that are in the process of dividing are said to be in . mitosis. or . cytokinesis ...

Student Exploration: Cell Division

Answers will vary. [Students may note that plants can produce energy from sunlight, so they must need some kind of structure for doing this.] Gizmo Warm-up The Cell Structure Gizmo™ allows you to look at typical animal and plant cells under a microscope. To start, click Sample to take a sample of an animal cell. Use the Zoom slider to see the cell at a magnification of 1000x (1000 times ...

Cell Structure Answer Key

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Explore Learning Student Exploration Answers

meiosis.docx - Name Date Student Exploration ... Both the sex cells must have 23 chromosomes. Gizmo Warm-up Meiosis is a type of cell division that results in four daughter cells with half as many chromosomes as the parent cell. These daughter cells mature into gametes, or sex cells.

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