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Comparing mitosis and meiosis lab answers

Cell cycle options - the cell stages go through as it grows and divides interphase- the longest stage of the cell cycle; Main stages of growth and preparation for cell division. Phase S- Synthesis; Cell Cycle Phase, When DNA is replicated in G1- Gap Phase 1, a cell cycle phase in which organelles are replicated in G2- Gap Phase 2, the cell cycle phase in which the cell undergoes its final growth before dividing the mitotic phase- the cell cycle phase in which the cell nucleus is divided into cytokinesis- a phase of the cell in which the cytoplasm is divided and two new girl cells are formed in mitosis- consists of 4 stages -p, meta-phase, anapasis, telephosis; This process ensures that each new cell is made to have a nucleus with the right amount of chromosomes. Meiosis- Process 2 set that includes the 4 stages of Prophase, metaphase, anapahse, telufas but completes this cycle twice. This process ensures that each resulting cell has half the number of chromosomes as the parent cell; Create gametes in the process. Students will be able to detail and define the stages of cell cycle and myosis Students will compare and compare myosis and mitosis, their role and student processes will explain why cell cycle is necessary for an organism to survive Students will explain how gamates are created vital questions: From what we know about cell cycle explain what happens in a cancer cell and how chemotherapy works., Think of an organism that asexually breeds what benefits and disadvantages compared to sexual reproduction. If we didn't have an independent selection or a crossing over what does it mean for the sex cells and offspring? Myosis ends with 4 cells with half the chromosome number as a somatic cell Why is it essential? Offspring are similar to their parents and siblings, but we're not clones of one parent or each other why is that? What is the connection between mitosis, myosis and cell circulation. 5 Periods Grade 1 PowerPoint Lab Presentation Projector Poster Board Markers Training Procedure: Day 1: Goals will be written on the board for this lesson to discuss the point of cell cycle why it is important for the growth and repair of our body and students will take guided notes on the cell cycle and students will be drawing a cell cycle filling the different parts of the cycle and what happens during that cycle. Color encoding the different areas to easily see the different sections. Day 2: Review the cell cycle segments by making it to the Smart Board and filling in every part of the cycle they remember and function. Students will attach guided notes on mitosis, a special part of the cell cycle. Students will come with a memory device to remember the 4 stages of the cell cycle, they will be to share their device with the department. Working at home: Read an article about cancer and answer guided reading questions. Day 3: Discuss the cancer article as a status. Share with the students some interesting facts they learned from the article. Students will be making the connection between mitosis and tumors. We will also discuss the difference between cancerous and non-cancerous tumors. Chemotherapy drugs and their role in cancer suppression and how they affect the mitosis cell cycle will also be discussed. Show Mitosis's student animations in action. Make sure students understand that mitosis causes plants and animal animals, but that there is a difference in binary fissions and mitosis. Homework: Students will work on identifying the different stages of mitosis, by completing the book learning guide on mitosis. Day 4: Homework review discussing mitosis's goal is 4 cells with 23 pairs of chromosomes all the same, for growth and repair. Myosis has another purpose, otherwise why should we create more special cells. There is a student brainstorming about what they think the purpose of Meiosis is and why it is important. After working for a few minutes, I will tell them one goal of Meiosis is to make genetically different cells from each other, and continue to get their feedback as I give them more goals of meiosis. We'll make a chart of mitosis targets versus the targets of myosis. Guided notes on Miosis Day 5: Students will work in pairs to create a poster of mitosis and myosis. It will state the differences and similarities of each process. Students will share the poster into three parts. They will draw and label each stage of mitosis and myosis. Labels should include centromere, centrioles, pivot fibers, nuclear envelope, chromosomes and chromatide. The middle column must be left blank and students will write their bullet points on the similarities of the cycles and the differences between the cycles. They can use all the class resources available to them. Student test from sea order evaluation creator : Student poster cell cycle, mitosis, myosis and myosis

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