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Cell cycle labeling answer key pdf

Shannan Muskopf June 11, 2018 Students label the image of a cell undergoing mitosis and answer questions about the cell cycle. The main phases are shown: interphase, prophase, metaphase, anaphase and telophase. I use the I-P-M-A-T as a storage device, although NGSS does not explicitly state that students need to know the phases, it is not difficult for them to learn and gives them a basis to understand how errors in the cell cycle can lead to cancer. I often use this worksheet in class as reinforcement, I give the students a few minutes to train as much as possible on their own and then use the overhead projector to fill in the remaining spaces. There are many answer keys to this worksheet published on the Internet, on different pages. For this reason, I usually don't give a grade for it and use it as a group or class activity. Grade Level: 8-12 Time Required: 10-15 minutes Pdf Google Doc HS-LS1-4 Use a model to illustrate the role of cellular division (mitosis) and differentiation in the manufacture and maintenance of complex organisms. Shannan Muskopf October 30, 2019 This worksheet was created for Fresh-level biology and is a simpler version of a worksheet I use in the advanced classes that show the cell cycle. The image shows a cell in interphase, prophase, metaphase, anaphase and telophase. Students label each phase and then identify structures within the cell that are important for cell division, such as the centrioles and spindles. The questions then ask students to determine the diploid number of cells (by counting the chromosomes) and to identify phases by description alone. I usually have students trying to do this on their own and then project it on the whiteboard and let a student fill out the answers so that students can check their work. Mitose can be a difficult subject for freshmen because it requires them to visualize and model a process that is not easy to see. Even if you provide microscope slides to see how an onion root tip, most cells are in the interphase and real cells won't look exactly like the model. The key to helping your students learn this process is PRACTICE. Students need many diagrams, images, and models. I print and laminate images of Mitose and let the students step in front of the class and arrange me in the right order. Students can even print a smaller version of this image and create flash cards to help them study the correct order. Level: 7-12 Time Required: 10-15 minutes HS-LS1-4 Use a model to illustrate the role of cellular division (mitosis) and differentiation in the production and maintenance of complex organisms. Download PDF Google Doc Key (TpT) standards Use a model to illustrate the role of cellular division (mitosis) and differentiation in the manufacture and maintenance of complex organisms. The assessment does not include specific gene control mechanisms or steps of mitosis. Mitosis.

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