

Cell Division Project Chart

Name _____

Directions: During the course of this project, you will choose items on the chart to complete. Each project will earn you points determined by the level of difficulty listed on the left side of the chart. **The maximum number of points allowed is 50 with a maximum of 5 extra credit points.**

When you have completed your projects, you must mark on the chart which projects you completed by putting an “X” through the box. You must also staple on any sheets of paper to show completion of a project. Larger projects such as a poster or model should be turned into the front table with your name, date, and period on them. Digital portions of your project should be shared with Mrs. D and should have your name in the titles.

<u>Point Value</u>	Define the Cell Cycle	List the Stages of Mitosis	Compare and Contrast: How is Cytokinesis in plant cells similar to and different from Cytokinesis in animal cells?	Answer the following 2 questions using complete sentences: What type of cells contain DNA? Which cells in the human body have chromosomes?	Label each cell with the correct phase of the cell cycle on the “onion” worksheet
EASY: 2 points each					
MEDIUM: 5 points each	Read <i>Distressed Amoebas Can Call for Help</i> article and answer the questions on the worksheet using complete sentences.	Imagine you are skin tissue and one of your cells dies. Describe the process to fill in the gap with a new cell. Include pictures.	Write a paragraph predicting what would happen to you if your cells kept dividing and never stayed in Interphase.	Make a list of at least five questions you would like to ask a biologist who specializes in cell division.	Draw the steps of Mitosis in the correct order including labels and a short description of what happens during each phase.
DIFFICULT: 7 points each	Prepare a Mitosis Flip Book showing the moving of the chromosomes into two new daughter cells. Must be a minimum of 20 pages.	Create a cartoon which illustrates the entire cell cycle including the stages of mitosis. Be sure to include explanations!	Develop an A to Z glossary of words related to cells and cell division. This must include words and definitions.	Design a quiz for section 2.3 (minimum of 10 questions – with answers!)	Create a puzzle or game of the cell cycle. This could be a word puzzle or a picture puzzle of some type. (Be sure to include an answer key or game instructions!)
CHALLENGE: 15 points each	Build a model of the stages of Mitosis using craft supplies of your choosing. Each stage should be labeled and described.	Prepare a Cell Cycle wall poster that combines the cell cycle information with the details of each phase of Mitosis and Cytokinesis.	Create a stop motion video of the process of mitosis and the cell cycle that includes labels and explanations for each phase. Email or digitally share on google with Mrs. D!	Research Gene Therapy on a computer or ipad. Write a newspaper article about it. Must be at least two paragraphs and have cited sources.	Look at onion root (Alum root tip) cells under a microscope. Find and draw Interphase and each of the phases of mitosis you see on the worksheet provided.

DUE DATE _____ TOTAL POINTS EARNED _____ /50