

CELL PROJECT

The purpose of this project is to show your knowledge of cell structures and their functions. Each organelle must be included with the correct jobs explained. **This assignment is due *Monday, February 4th***. You will present your project to the class.

You will need to choose one of the following project options:

- 1) **CELL MODEL:** You could construct a model of either a **plant cell** or an **animal cell**. Cells could be made of edible materials, or clay, metals, wood, cloth, yarn, etc. The cell is to be 3-dimensional and the model organelles should be made similar in appearance to true organelles. You must include a key to the model with the function of each organelle. Remember plant cells have two extra structures!
- 2) **CELL POSTER:** You could draw/create a quality "classroom wall worthy" visual aid of a cell. The poster would need to include all organelles labeled and an explanation of the functions of each organelle.
- 3) **CELL DIARY:** You could write a diary for "a day in the life of a cell..." in which you would teach about the functions of the organelles within a cell. You could be a cell organelle and discuss who you interact with, what you observe, and what you feel. Be sure to include all organelles in your day! You need to be creative!
- 4) **CHILDREN'S BOOK:** You would create a children's book for a child to "meet a cell." The book would be designed for elementary school children and would need to teach the organelles and their functions. This could be done through stories, through pictures, or like a simplified encyclopedia. Be sure to include all organelles.
- 5) **Cell Scrapbook:** Construct a scrapbook that includes pictures that represent the different organelles.
- 5) **NEWSPAPER "HELP WANTED" ADS:** Combine and apply knowledge of cell parts and functions to create "help wanted" advertisements for a cell newspaper. You would model the ad after real help wanted ads. Include qualifications, list responsibilities, list of benefits, etc. based on what cells need and what the cell parts do. Be sure to list the names of the organelles within the ads along with the jobs.
- 6) **Green Screen:** You get to be creative here. No more than 3 people in a group. Make sure you give information on each organelle and their job in the cell.

OTHER IDEAS: You need to get my approval on other ideas you may have. You still need to include the functions AND structures in the project. No copy and pasting information.

Be sure to include the following organelles:

cell membrane	mitochondria
nucleus	golgi bodies
nuclear envelope	lysosome
nucleolus	ribosomes (at least 8)
chromatin	vacuole
endoplasmic reticulum	cell wall (<i>plant cells only</i>)
cytoplasm	chloroplast (<i>plant cells only</i>)

All above cell structures and correct functions must be included for a PROFICIENT grade. To achieve ADVANCED status on this project you will need to make comparisons of the cell organelles to the real world (analogy style). ALL projects that have written information need to be neatly done in ink or typed and with color where appropriate.