

2D Cell Project

Name: _____ Due Date: Tuesday, May 19, 2025

Project Guidelines:

- The project must be two-dimensional and colored.
- The project must be drawn on a blank piece of copy paper, construction paper, or poster paper. (AKA: Do not draw this on lined notebook paper.) Graph paper is acceptable.
 - Tip: If it is small, it is the standard size of copy paper, it is easier to take a picture or scan in your work.
- The organelles must be made in a creative way that symbolizes the organelle's job. Use your Google Doc worksheet: "An Organization" to create a detailed drawing of your favorite organization.
- All cell parts must be clearly labeled on the drawing with both the job or item and the cell part. (Ex: Boss/Nucleus).
- A clear picture or scanning of the project should be submitted.
- The project must be easy to decipher and properly labeled and spelled with all parts of the cell labeled.

Choose to do either an animal cell or a plant cell:

- **Organelles required for animal cell models:** cell membrane, vacuole, nucleus, mitochondria, cytoplasm, ribosomes, Golgi apparatus, protein, and lysosomes.
 - Extra credit- +5 If you can include the endoplasmic reticulum, (which helps the ribosomes make proteins and other materials).
- **Organelles required for plant cell models:** cell wall, cell membrane, chloroplast, large central vacuole, nucleus, mitochondria, cytoplasm, ribosomes, protein, and Golgi apparatus.
 - Extra credit- +5 If you can include the endoplasmic reticulum, (which helps the ribosomes make proteins and other materials).

PROJECT RUBRIC:

CATEGORY	25	20	15	10
Academic Accuracy	Each organelle is identified according to its scientific name AND its represented analytical from "An Organization" worksheet.	1-2 organelles are misidentified according to their scientific name or analytical name from the "An Organization" worksheet.	3-6 organelles are misidentified according to their scientific name or analytical name from the "An Organization" worksheet.	More than 7 organelles are misidentified according to their scientific name or analytical name from the "An Organization" worksheet.
Organelles are all included	All organelles are properly labeled.	1-2 organelles may be missing or mislabeled from the drawing.	3-6 organelles are missing or mislabeled from the drawing.	More than 7 organelles are missing or mislabeled from the drawing.
Spelling	No spelling errors exist.	1-2 spelling errors exist in organelle names and functions.	3-6 errors in spelling exist in organelle names and functions.	7 or more spelling errors exist on cell model projects.
Neatness	The drawings and labelings are clearly written and drawn. There is no mistake as to what is said or which organelle was drawn.	The drawings and labelings are somewhat clearly written and drawn. There can be some difficulty reading what is said or which organelle was drawn. 1-3 organelles or labelings are difficult to read.	The drawings and labelings are not clearly written and drawn. There can be difficulty reading what is said or which organelle was drawn. 4-6 organelles or labelings are difficult to read.	7 or more labels or organelles are difficult to interpret. Handwriting or drawing skills are indecipherable.