

The Incredible Cell Project

You will be required to construct a model of a plant OR animal cell. All models must be made out of materials that will not spoil. Your project must be labeled. You may label each organelle or create a key. Use the questions in the grading section to help you develop a good project.

Each model must include the following organelles:

- Cell wall (if plant cell)
- Cell membrane
- Nucleus (w/ nucleolus & chromosomes)
- Cytoplasm
- Endoplasmic Reticulum
- Golgi Bodies
- Ribosomes
- Mitochondria
- Vacuoles
- Lysosomes (if animal cell)
- Chloroplasts (if plant cell)

Grading:

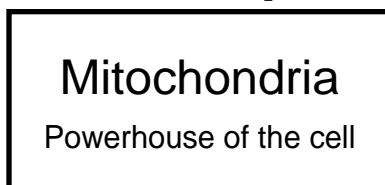
Grades will be based on the following questions:

- √ Is your name on the front of the project?
- √ Is the cell type identified? Tell if it is a plant or animal cell.
- √ Is the model a 3-D representation of a plant or animal cell?
- √ Are all the organelles included? (10 for plants cells, 9 for animal cells)
- √ Are the organelles correctly labeled? Each organelle must be labeled with its name and function.
- √ Are the relationships between the parts (if any) shown correctly? Are the ribosomes on the endoplasmic reticulum? Is the endoplasmic reticulum near the nucleus? If a plant cell, are the chloroplasts around the vacuole?
- √ Are the materials acceptable? The materials cannot be food products.
- √ Is the model under 30 centimeters on any side?

Bonus:

You could be awarded with a bonus (5 extra credit points) if your project is selected to be the **Most Scientific**, **Most Attractive**, or **Most Disgusting**. Students will vote to decide the winner in each category.

Label Example:



Project Due Date:
