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:

Mitochondria
Powerhouse of the cell

Project Due Date:

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