The Incredible Edible Cell

You will be required to construct a model of a plant OR animal cell. All models must be made out of <u>edible</u> materials that will remain fresh at least 3 days <u>without</u> refrigeration. Avoid using materials that have an unpleasant odor or that may be considered offensive!

Each model must include all of the following organelles:

- Cell wall (if plant cell)
- Cell membrane
- Nucleus
- 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 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. You may label each organelle or use a key.
√ 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?
√ Is the model under 30 centimeters on any side?

You may use the following materials, but they cannot count as part of the cell: container, plastic wrap, paper, or toothpicks. Keep in mind that these projects will be eaten after they have been graded!

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

PROJECT DUE:

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Example of label:

Mitochondria
Powerhouse of the cell

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