

# CELL- E- BRATION PROJECT!

You will be required to construct and present to the class a representation of a plant OR animal cell OR a particular organelle. Each project has to be labeled or you may create a key. You can create one of the following types of cell projects:

1. 3-D model (please no Styrofoam spheres or food) of a complete cell or one particular organelle
2. Booklet/ Scrapbook (Each organelle will be represented on its own page of booklet)
3. Mobile
4. Analogy Poster / Model (Where you are comparing a cell to another structure/building/story)

You must have approval from me before bringing in the project. (See below)

## REQUIREMENTS:

Each model of a complete cell must include all of the following organelles:

- Cell wall (if plant cell)
- Cell membrane
- Nucleus
- Cytoplasm
- Endoplasmic Reticulum
- Golgi Apparatus
- Ribosomes
- Mitochondria
- Chromosomes
- Lysosomes
- Chloroplasts (if plant cell)
- Vacuoles

12 for plant cells, 10 for animal cells

## GRADING:

Grades will be based on the following questions:

- ✓ Is your name on the project?
- ✓ Is the cell type/organelle identified? Tell if it is a plant or animal cell or name the organelle.
- ✓ Is the model a 3-D representation of a plant or animal cell or organelle?
- ✓ Are all the organelles included? (12 for plants cells, 10 for animal cells)
- ✓ Are the organelles correctly labeled? Each organelle must be labeled with its name. You may label each organelle or use a key. Be neat and spell correctly!
- ✓ 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 green?
- ✓ Does the shape of the organelle match the true shape of the organelle?
- ✓ Are the materials acceptable? (Please, no Styrofoam spheres or food)
- ✓ Did you present your project appropriately? (if you want to present individually, you have to present before school starts and arrange this with Mrs. Rondeau prior to Monday, Oct. 1)
- ✓ Did you provide sources where you received your information? (Yes, you can cite the Textbook)

Graded by the following criteria:

60 points –Correct organelles, labeled, and accurate representation	5 points – cell type identified
10 points – design	10 points – spelling
10 points - presentation	5 points - neatness

## BONUS!

Bonus points can be earned by being creative and unique. You can earn up to 5 extra points for creativity, uniqueness, and scientific accuracy with your project.

Type of project:

Approved by Teacher:

Due date:

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Wednesday, October 3, 2018