

Chapter 1: Cell Structure and Function

Cell Project Due Date: Wednesday, September 11th, 2019

Objective: Create your own 3-dimensional animal cell. You may **not** draw and label a cell – **you must create one.**

Use your imagination when creating your cell. If you use food items, use items that will not mold or decay quickly. Your projects will be left on display for several days (photography may be taken.) No cell project will be ingested.

Possible items to use when creating your cell:

Playdoh
Modeling Clay
Pipe Cleaners
Spices
Craft Supplies
Food Items (dried pastas, beans, etc.) – none that will spoil
Marbles
And more...

Use a different item for each type of organelle...do not duplicate

I. Your cell project must include the following organelles:

- a. cell membrane
 - b. cytoplasm
 - c. nucleus
 - d. nucleolus
 - e. mitochondria
 - f. endoplasmic reticulum
 - g. ribosomes
 - h. Golgi body(ies)
 - i. vacuole(s)
 - j. lysosomes
- 5 points for each organelle**
Total of 50 points!!!

II. Your cell project must include a complete key to your organelles. You may either label your organelles directly, with flags, or you may create a legend.

2 points for each organelle

Total of 20 points!!!

III. State the function of each organelle on a separate sheet of paper. Do NOT write a description of the organelle. This must be typewritten.

Example: nucleus: the control center of the cell that directs the cell's activities. It also contains genetic information.

2 points for each organelle

Total of 20 points!!!

IV. Overall presentation of the project. Teacher assessment of neatness, originality, and organization.

Total of 10 points!!!

V. Each day your project is late, it will receive a penalty of – 5 points

If you have any questions, don't hesitate to ask.