

# EDIBLE CELL PROJECT

Due Date: August 29, 2011

**Parent Signature:** \_\_\_\_\_

**Assignment:** Construct an edible model of either a plant or an animal cell, plan the ingredients for your creation, and present your model to the class.

**Guidelines:**

- Be sure to include all cell structures listed below and use labels on your cell.
- Edible - Use frosting, candies, pasta, beans, fruit, etc. to represent each part; make it look as realistic as possible (and tasty too).
- Complete the organelle function sheet as you create your cell.
- Your edible cell should be a single serving size; please keep it small enough to bring on the bus. (should not be larger than a paper plate)
- Use disposable pans/plates or cardboard covered with foil.
- Your project will be graded for accuracy, completeness, creativity, and neatness.
- You will also be graded on your presentation for your explanation and delivery.
- Please see the rubric on the back.

\*\*\*\*\*If you are unable to make an edible cell (if your parents are unable to get these materials), please see your teacher about an alternate project.

Animal Cell

1. Cytoplasm
2. Cell membrane
3. Nucleus
4. mitochondria
5. vacuole

Plant Cell

1. Cell wall
2. Cell membrane
3. Cytoplasm
4. Nucleus
5. Chloroplasts
6. mitochondria
7. vacuole

In addition to the cell, you must also complete the plant and animal cell chart attached.

Name \_\_\_\_\_ Date \_\_\_\_\_

## EDIBLE CELL - Grading Rubric

Name: \_\_\_\_\_ Type of Cell: \_\_\_\_\_

	<b>4-Exemplary</b>	<b>3-Good</b>	<b>2-Satisfactory</b>	<b>1-Needs Improvement</b>
Cell Structures And Functions (x5)	All cell structures and functions are included and are accurately represented and written. (plant cell-7; animal cell-6)	Five or six (plant) or four (animal) cell structures and functions are included or are accurately represented	Includes and accurately represents three or four (plant cell), three (animal) of the structures and functions in the cell	Fails to identify and/or represent structures and functions of the cell correctly. Includes only two structures and functions in the cell.
Creativity (x1)	Model is creatively constructed using a wide variety of food items (different food for each organelle)	Model uses several different food items. (one food item is used for more than one organelle)	Model is constructed using a limited variety of food items. (three food items are used for all organelles)	Model is constructed using the same material for each part.
Following Guidelines (x1)	Model is extremely neat and is appropriately constructed according to size, materials, display, and labels.	Model is neat but is missing one component (size, materials, display, labels).	Model is lacking neatness and is missing more than one component (size, materials, display, labels).	Model is sloppy and messy and is missing multiple components (size, materials, display, labels).

### Presentation

Explanation (x2)	Explains all organelles and functions of each in the cell	Explains four organelles (animal cell) or five-six organelles (plant cell)	Explains three organelles (animal cell) or four organelles (plant cell)	Explains two or less organelles (animal cell) or three/less organelles (plant cell)
Voice (x1)	Speaks clearly in a manner for everyone to hear	Speaks clearly in a manner for everyone to hear	Speaks clearly but not loud enough for everyone to hear	Does not speak clearly nor loud enough for everyone to hear

Rubric Score: \_\_\_\_\_ / 28

Presentation: \_\_\_\_\_ / 12

Total: \_\_\_\_\_ / 40