Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_ Date Assigned: \_\_\_\_\_\_\_

Cell Model Project

INSTRUCTIONS:

A.) You may choose to make a plant or animal cell. **Cell Type Selection: \_\_\_\_\_\_\_\_\_\_\_\_**

B.) Your cell must not be a copy of a diagram (i.e., cannot be a colored diagram of the cell).

C.) The model may be edible or non-edible.

D.) All parts of your cell must be labeled clearly.

Suggestion: use toothpicks and pieces of paper to make numbered flags. Your numbered flags should correspond to a table listing the organelles.

E.) Functions of each organelle should be provided in the table that lists each organelle.

F.) Your organelles should clearly represent the actual organelle. By looking at an organelle, I should be able to tell what it is. Use your notes, textbook, and web based resources to help you correctly construct your model.

Ex: Your nucleus should not be square. Your mitochondria should have a folded inner membrane.

G.) Actual number and size of organelles should be represented.

Ex: Each cell has one nucleus. Plant cells have one large vacuole. Cells have multiple mitochondria and other organelles.

H.) Be unique and creative! Use a variety of materials.

Organelles that should be included:

|  |  |
| --- | --- |
| Eukaryotic Plant Cell | Eukaryotic Animal Cell |
| Cell Wall | Cell Membrane |
| Cell Membrane | Cytoplasm |
| Cytoplasm | Nucleus |
| Nucleus | Nucleolus |
| Nucleolus | Smooth ER |
| Smooth ER | Rough ER |
| Rough ER | Ribosomes |
| Ribosomes | Golgi Apparatus |
| Golgi Apparatus | Vacuole |
| Vacuole | Mitochondria |
| Mitochondria | Lysosomes |
| Chloroplasts |  |