Cell Analogy Model Instructions Due Date: _____

Create an analogy for a cell.
Illustrate the systems of a working cell in terms of the systems of the real world.
Produce a product that is neat, clear and creative. Creativity and Neatness count in this project.

Guidelines:

- Choose a real world working system and decide how each organelle of the eukaryotic cell can be compared to the components and functions of the real world system.
- Some ideas are: hospital, city, mall, country, restaurant, zoo, garden, castle, etc.
- Create a large poster that is a visual representation of your analogy illustrating all of the parts representing the cell organelles/structures.
- Make sure your analogous parts are logical, accurate representations of the organelles.
- Label each part of your system with its name and the cell structure name. [Example: principal-nucleus] Print your labels NEATLY in black. **Check your spelling.**
- Create a typed table as a key to go with your poster with the following four columns: Organelle Name, Organelle Function, Analogous Structure, Analogy Explanation.
- Attach the table to the front of the poster. Do no cover anything. Make sure it is secure.
- Label/name your poster and table with the type of cell and the analogous system.
- Make sure your name is on the back of the poster and on the table.

The analogy poster you choose to create must include the following organelles:

PLANT CELL

_____ Cell Membrane
_____ Cell Wall
_____ Chloroplast
_____ Cytoplasm
_____ Mitochondria
_____ Chromatin
_____ Nucleus
_____ Nucleolus
_____ Golgi Complex (body)
_____ Smooth Endoplasmic Reticulum
_____ Rough Endoplasmic Reticulum
_____ Vacuoles
_____ Nuclear Membrane
_____ Ribosomes

ANIMAL CELL

_____ Cell Membrane
_____ Cytoplasm
_____ Mitochondria
_____ Nucleus
_____ Nucleolus
_____ Chromatin
_____ Golgi Complex (body)
_____ Smooth Endoplasmic Reticulum
_____ Rough Endoplasmic Reticulum
_____ Vacuoles
_____ Nuclear Membrane
_____ Ribosomes
_____ Lysosomes

Example of Table for Cell as a School:

Organelle Name	Organelle Function	Analogous Structure	Analogy Explanation
nucleus	Controls all of the cell's functions; contains the cell's genetic material,	Principal	I chose the principal because he is in charge of all of the school's activities. He also passes out the information important to the running of the school.