Cells, the basic units of life, are often compared to a pizza parlor, a factory, or even a playground. Now that you have learned about the organelles, you will think of a metaphor, comparing the cell and it’s organelles to a real world place or object. The goal of the metaphor is to create deeper understanding and connections to the parts and functions of a cell. Since we already compared the cell to a school in class you will not be allowed to use this one.

Name:

Date: Period:

**Task One:** *Metaphor*  **Task One:** Due Date **\_\_\_\_\_\_\_\_\_\_\_** A cell is like a(n) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Task Two:** *Explain the Metaphor* **Task Two:** Due Date **\_\_\_\_\_\_\_\_\_\_\_** When making the metaphors between your cell and a(n) \_\_\_\_\_\_\_\_\_\_\_, the *functions* of the \_\_\_\_\_\_\_\_ parts and cell parts must match, not necessarily the appearance! **Complete the following chart to explain the relationship between each cell part and your chosen metaphor…**

**Task Three**: *Create a Model* **Task One:** Due Date **\_\_\_\_\_\_\_\_\_\_\_** You are to **draw** and **color** a detailed model of your cell metaphor on a sheet of computer paper. This drawing must be neat and turned in as final draft! Use a ruler for your straight edges! You must label both the part in the metaphor and the cell part that’s represented. Pay attention to the examples shown in class.

|  |  |  |
| --- | --- | --- |
| **Cell Part** | **Part in the Metaphor**  | **Explain the relationship between the Metaphor Part and the Cell Part** |
| **Nucleus** |  |  |
| **Nucleolus** |  |  |
| **Cell Membrane** |  |  |
| **Cell Wall** |  |  |
| **Ribosomes** |  |  |
| **Endoplasmic Reticulum (Rough and Smooth)** |  |  |
| **Golgi Body** |  |  |
| **Mitochondria** |  |  |
| **Lysosomes** |  |  |
| **Vacuole** |  |  |
| **Chloroplast** |  |  |
| **Cytoplasm** |  |  |
| **Centrosome (Centrioles)** |  |  |
| **Cytoskeleton** |  |  |

**Scoring Guide for Cell Metaphor Project**

A **labeled, colored** drawing of what you are **comparing your cell to** is included (This is NOT a picture of a cell; but of a school, supermarket, playground, whatever you thought of for your metaphor) \_\_\_\_/5 A **chart** that accurately tells:

 Which **organelle** compares to which **part** of your metaphor \_\_\_\_/5

 The **relationship** between the **metaphor and cell organelle**  \_\_\_\_/5

**Total: \_\_\_\_/15**

**Teacher Comments:**