

Name _____ Period _____

Cell Analogy Project

Instructions

Cells, the basic units of life, are often compared to a pizza parlor, a factory, or even an entire city. In this project, you will need to make analogies to compare the function of the plant cell to the part and functions of an entire city. To accomplish this, you must complete the following tasks:

Task 1: Create analogies between a plant cell's parts and a city's (or any analogy's) parts by completing the Cell Analogy worksheet.



A must: When making the analogies between your cell and your city (or other analogy), the *functions* of the city part and cell part must match, not the appearance!

This is worth 20 points

Task 2: Draw a detailed model of your cell city. This drawing must be neat and turned in as final draft form! Use a ruler for your straight edges! You must label both the part in the cell city and the cell part that's represented. The drawing must be on a blank sheet of paper (no lines) that is **at least** 8.5 inches by 11 inches (standard printer paper).

This is worth 10 points

Want to go a step further?

Build a three-dimensional model of your cell city. This can be done instead of doing the drawing. If you choose to do this, you are responsible to get all of the materials. You must label both the part in the cell city and the cell part that's represented in your model.

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Cell Analogy Worksheet

Cell Part	Function of Cell Part (1/2 pt. Each)	Part in City (1/2 pt. Each)	Explain the analogy between the cell part and city (1 pt. Each)
Cell Wall			
Cell Membrane			
Smooth Endoplasmic Reticulum			
Rough Endoplasmic Reticulum			

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Nucleus			
Mitochondria			
Chloroplast			
Vacuole			
Cytoplasm			
Golgi Apparatus			

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