

Name: _____ Date: _____ Period: _____

INSTRUCTIONS FOR CREATING YOUR ANALOGY

You will follow the step-by-step process described below to complete your own cell analogy.

Step 1

Choose a topic for your cell analogy. Below each topic heading are possible analogies for the topic. Circle your choice.

<u>Factory</u>	<u>City of Houston</u>	<u>School</u>
<ul style="list-style-type: none"> - owner - machines - assembly workers - breaker box - custodians - gates - shipping dock - managers - trash can - supply room 	<ul style="list-style-type: none"> - beltway - city hall - reliant energy - garbage man - dumpster - metro bus - restaurants - police - jail - library 	<ul style="list-style-type: none"> - principal - school doors - students - cheerleaders - janitors - recycling team - trash can - teacher - officer - supply room

Step 2

Write a complete sentence to describe how the items or people in your topic or similar to the organelles listed below. An example is provided for you.

Example: The doors of a school are like the cell membrane because they allow people to enter and exit the building.

Nucleus	Control center of the cell. Stores and protects the DNA
Cell Membrane	Thin layer around cell that controls what goes in and out of the cell.
Mitochondria	Bean shaped organelle that produces energy for the cell.
Endoplasmic Reticulum	System of highly folded membranes that produce lipids and proteins.
Vacuole	Sacs of fluid that store water, food, and enzymes.

Ribosome (Is Not Membrane Bound)	Tiny organelles on rough endoplasmic reticulum that link amino acids together to form protein.
Lysosome	Organelle that uses enzymes to digest and recycle used cell parts.
Golgi Apparatus	Modifies, packages, and transports proteins.

Create an analogy drawing with descriptions that correlate the images to eukaryotic organelles.

PRODUCT GUIDE FOR DRAWING

Parts	Criteria	Points
Organelles	1. The drawing includes pictures AND descriptions beside each picture describing how it represents each of the following organelles: <ol style="list-style-type: none"> a. Cell Membrane b. Endoplasmic Reticulum c. Golgi Apparatus d. Lysosome e. Nucleus f. Mitochondria g. Ribosome h. Vacuole 	50
Completion	2. The drawing covers an entire page and is colorful. 3. All written words are easily readable 4. Name, date and period are on the top of the first page.	10 points 10 points 10 points
Organization	5. The picture is organized so that it makes sense to the reader and is neat. <ol style="list-style-type: none"> a. Easy to read and understand b. Neatly written, drawn and colored. 	20 points