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Group Number: \_\_\_\_\_ DUE DATE: \_\_\_\_\_

### Cell Analogy Project

#### Cell City Analogy Example

In a far away city called Grant City, the main export and production product is the steel widget. Everyone in the town has something to do with steel widget making and the entire town is designed to build and export widgets. The town hall has the instructions for widget making, widgets come in all shapes and sizes and any office of Grant can get the instructions and begin making their own widgets. Widgets are generally produced in small shops around the city, these small shops can be built by the competitor's allies (whose headquarters are in town hall).

After the widget is constructed, they are placed on special carts which can deliver the widget anywhere in the city. In order for a widget to be exported, the carts take the widget to the port of New, where the widgets are packaged and labeled for export. Sometimes widgets don't turn out right, and the "rejects" are sent to the scrap yard where they are broken down for parts or destroyed altogether. The town powers the widget shops and carts from a hydroelectric dam that is in the city. The entire city is enclosed by a large wooden fence, only the postal trucks (and citizens with proper passports) are allowed outside the city.

Match the parts of the city (underlined) with the parts of the cell.

1. Mitochondria \_\_\_\_\_
2. Ribosomes \_\_\_\_\_
3. Nucleus \_\_\_\_\_
4. Endoplasmic Reticulum \_\_\_\_\_
5. Golgi Apparatus \_\_\_\_\_
6. Protein \_\_\_\_\_
7. Cell Membrane \_\_\_\_\_
8. Lysosome \_\_\_\_\_
9. Nucleolus \_\_\_\_\_

### Cell Analogy Project

Due Date for Chart: \_\_\_\_\_

Due Date for Final Project: \_\_\_\_\_

**Objective:** To compare the structure and function of cells with a familiar system.

**DIRECTIONS:** You will create an analogy (comparison) for a cell using YOUR OWN analogy. You may NOT use any of the following options: city, house, human body, factory, school or space station. Some other examples are a particular sport, skate park, tv show, etc. Get creative with it. Your project will include:

1. Analogy Chart - This will be your "rough draft". You will mimic the chart on the back of this paper and turn it in for me to check before you begin your final product. This chart is due on \_\_\_\_\_.
2. Illustration/visual aid where you label and color each part of your analogy and its corresponding cell part (organelle). To clarify: you are not turning in a picture of a cell. Your visual should be what you are comparing the cell to.
3. Written analogy of each part/organelle of your comparison. See example below:

<b>20 pts</b>	Have analogy chart filled out on the date given above. Attach the chart to your final project on the due date.
<b>40 pts</b>	A <b>labeled and colored</b> drawing of what you are comparing each organelle in your cell to in your analogy.
<b>50 pts</b>	Write out the analogy for your cell parts. Can be handwritten or typed. Use the following statement as a template for each of the organelles and what you are comparing it to in your analogy: The _____ is similar to the _____ of a _____ because it _____ just like the _____ of a cell.  Ex: The <b>nucleus</b> is similar to the <b>central office</b> of a <b>factory plant</b> because it <b>manages activities, initiates production, and controls activities of a factory</b> just like the <b>nucleus</b> of a cell <b>controls all of the functions of the cell</b>

Be sure to include each of the following organelles in your **drawing, labeling, and description**. Choose whether you are doing a plant cell or an animal cell and check off each organelle as you add it on your analogy.

- |   |  |   |   |
|---|--|---|---|
| <p><b>Plant Cell</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Nucleus</li> <li><input type="checkbox"/> Cell wall</li> <li><input type="checkbox"/> Chloroplast</li> <li><input type="checkbox"/> Golgi body</li> <li><input type="checkbox"/> Lysosome</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Mitochondrion</li> <li><input type="checkbox"/> Cell membrane</li> <li><input type="checkbox"/> Ribosomes</li> <li><input type="checkbox"/> Endoplasmic reticulum</li> <li><input type="checkbox"/> Central vacuole</li> </ul> | <p><b>Animal Cell</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Nucleus</li> <li><input type="checkbox"/> Cytoplasm</li> <li><input type="checkbox"/> Lysosome</li> <li><input type="checkbox"/> Golgi body</li> <li><input type="checkbox"/> Vacuoles</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Mitochondrion</li> <li><input type="checkbox"/> Cell membrane</li> <li><input type="checkbox"/> Ribosomes</li> <li><input type="checkbox"/> Endoplasmic reticulum</li> <li><input type="checkbox"/> Centrioles</li> </ul> |
|---|--|---|---|

# Cell Analogy

Analogy: The cell is like a school.

Cell Part	Analogy:	Explanation
<del>Mitochondria</del> <u>Nucleus</u>	<u>Super intendant's office</u>	<u>The control center, it makes the rules</u>
<u>Vacuole</u>	<u>Cafeteria</u>	<u>Its where the food is stored.</u>
<u>Golgi body</u>	<u>Announcements</u>	<u>Receives materials and then sends them to the other parts</u>
<u>E.R= Endoplasmic Reticulum</u>	<u>Hallways</u>	<u>Passage ways that carry materials</u>
<u>Cell wall</u>	<u>Outside of the school, the bricks</u>	<u>Stiff wall, gives a boxlike shape or form</u>
<u>Cytoplasm</u>	<u>All the rooms</u>	<u>Area between the cell wall and the nucleus</u>
<u>Cell membrane</u>	<u>Doors of the rooms</u>	<u>Barrier, it lets things in and out</u>
<u>Mitochondria</u>	<u>Boilers (down in the cellar)</u>	<u>Gives the rooms and other electronics energy Ex. Lights</u>
<u>Lysosomes</u>	<u>Teachers staff students visitors parents in school</u>	<u>Small living things breaks down foods</u>

## Cell City Analogy

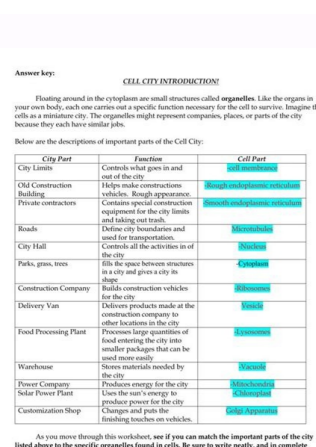


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- Endoplasmic Reticulum \_\_\_\_\_
- Golgi Apparatus \_\_\_\_\_
- Protein \_\_\_\_\_



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