

Cell City Analogy

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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 sizes and any citizen 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 **carpenter's union** (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 **postal office**, 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 **hydraulic 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. Lysosomes _____

9. Nucleolus _____

** Create your own analogy of the cell using a different model. Some ideas might be: a school, a house, a factory, or anything you can imagine**

