Cell City Analogy

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 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 has a water tower, which stores all of the town's water. The town powers the widget shops and carts from a hydraulic dam that is in the city. In some areas, the city uses solar energy as well. The entire city is enclosed by a large wooden fence, only the postal trucks (and citizens with proper passports) are allowed outside the city. It is the cell landscape found in any space where organelles are not, and therefore is much like the lawns and parks of our city.

ASSIGNMENT:

Your task is to create an image of your city from the text. You must include all of the underlines objects in your city. Please label the items on your map with the corresponding cell organelle. Use the class cell graphic organizer for information. ALSO include a brief description of what that organelle does for the cell.

Work individually on 11x17 paper (rulers, pencil and color pencils are recommended)
**Structures of the Eukaryotic Cell**

Name______________________________  Period____________  Date________________

1. Mitochondria

2. Ribosomes

3. Nucleus

4. Endoplasmic Reticulum

5. Golgi Apparatus

6. Protein

7. Cell Membrane

8. Lysosomes

9. Nucleolus

10. Cytoplasm

11. Chloroplast

12. Vacuole

Original Source: Biology Corner www.biologycorner.com/worksheets/cell-analogy.html