

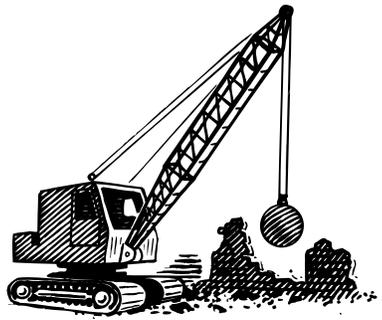
City Hall



Postal Service

City Limits

City Border



Demolition Service



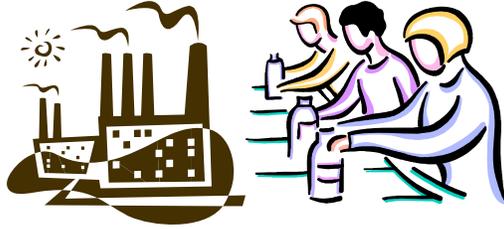
City Plans



Power Plant



Community



Manufacturing Plants



Streets and Roads



Workers

Nucleus

Function: This is a large organelle near the center of the cell that contains all the genetic material, or DNA of the cell. It is the control center of the cell or the main “building” of the cell.

Cytoskeleton

Function: This organelle holds the cell in its shape and also holds it together. Another function of this organelle is to move things around the cell.

Ribosomes

Function: These organelles create proteins that are very important to the successful function of the cell. The cell nucleus is its “boss” and “tells” it when and what proteins to make.

Mitochondria

Function: This organelle produces all the energy that the cell needs. It converts chemical energy from food into energy that the cell can use.

Smooth and Rough Endoplasmic Reticulum

Function: The rough endoplasmic reticulum takes proteins from the ribosomes attached to it and finishes manufacturing them. The smooth endoplasmic reticulum manufactures and stores chemicals that the cell can use.

Cell Membrane

Function: This organelle surrounds the entire cell and holds it together. It separates the cell from everything that is outside of it. It also controls what is able to pass into and out of the cell.

Lysosomes

Function: This organelle digests and breaks down old or damaged organelles.

Golgi Apparatus (Golgi Body)

Function: This organelle creates chemicals that it then delivers to the outside of the cell.

Cytoplasm

Function: The gel-like substance that is within the entire cell. All of the cell's organelles are supported and suspended in it.

Chromosomes

Function: Contains the genetic material that plans what type of cell it is. When a cell multiplies it is used to determine what the new cell will look like.

Key:

City Hall = Nucleus

Streets and Roads = Cytoskeleton

Community = Cytoplasm

Workers = Ribosomes

Manufacturing Plants = Smooth and Rough Endoplasmic Reticulum

Power Plant = Mitochondria

City Plans = Chromosomes

City Border = Cell Membrane

Demolition Service = Lysosomes

Postal Service = Golgi Apparatus