Looking Inside Cells: Organelles

What Am I?
CELL WALL

• A rigid layer of nonliving material that helps to protect and support the cell.
VACUOLE

- This sac stores water, food, waste products, and other materials.
NUCLEUS

- Directs all of the cell’s activities, including reproduction.
CYTOPLASM

• The gel-like fluid inside a cell.
MITOCHONDRIA

• Most of the cell’s energy is produced within these rod-shaped organelles.
ENDOPLASMIC RETICULUM

- This network of passageways carries materials from one part of the cell to another.
GOLGI BODIES

- These organelles receive materials from the ER and send them to other parts or outside of the cell.
CELL MEMBRANE

• Forms the outside boundary that separates a cell from its environment and controls what substances come into and out of a cell.
CHLOROPLASTS

• These organelles capture energy from sunlight and use it to produce food for the cell.
LYSOSOMES

• These small organelles contain chemicals that break down food particles and worn-out cell parts.
RIBOSOMES

• These small structures function as factories to produce proteins.
Edible Cell Model:  
**Expectations**

- You MUST wear gloves when handling food.
- Do NOT eat anything unless instructed to do so.
- Misbehavior will result in your model being taken away.