

**Cytoplasm:**  
Gel-like substance. Inside cells that hold organelles

**Endoplasmic Reticulum:**  
Aids in transporting material in the cell

**Ribosomes:** Assists in protein synthesis (putting together proteins)

**Centriole:** Help in cell division

**Golgi Bodies:** Help \*package\* materials to transport in/ out of the cell

**Vacuole:** Storage Centers

**Chloroplast:** \*plant cell ONLY\* where photosynthesis occurs

**Mitochondria:** the “powerhouse” of the cell. Food is transformed into useable energy

**Nucleus:** “the brain” or control center– Where DNA is stored

**Cell Membrane:** Acts as a screen/ filter allowing only certain molecules into/ out of the cell

**Cell Wall:** Protection/ Structure for plant cell \*plant cell ONLY\*

### Animal Cell

- Cluster/ circular in shape
- Centrioles
- Small vacuoles
- Cellular respiration

### Both:

- Nucleus
- Mitochondria
- Golgi bodies
- Endoplasmic Reticulum
- Cell membrane
- Ribosomes
- Contain DNA & cytoplasm
- Need H<sub>2</sub>O
- Replicate
- Basic building block of life

### Plant Cell

- Chloroplasts & Cell Wall
- More “box-like” structure
- Uses photosynthesis to convert sun and water into useable energy
- Large vacuole