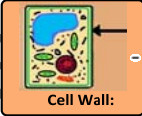
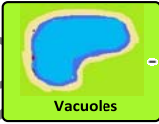


**Biology Notes: Cell Structure**



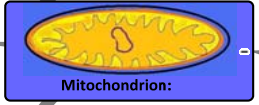
**Cell Wall:**

- Function:** Supports cell
- Appearance:** Rectangular, cellulose structure
- Location:** Surrounds plant cells



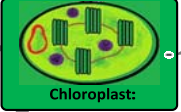
**Vacuoles**

- Function:** Gives the cell strength/shape, Stores materials (saps)
- Appearance:** Fluid filled space
- Location:** Plant cells



**Mitochondrion:**

- Function:** Supply energy, Site of respiration
- Appearance:** Oval shape, Many infoldings, Loop of DNA
- Location:** Animals: - Muscle Tissue, Liver; Plants: - Meristem



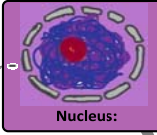
**Chloroplast:**

- Function:** Site of photosynthesis
- Appearance:** Green, Contain pigment chlorophyll, Contain starch grains, Contain a strand of DNA
- Location:** Leaf cells: - Mesophyll layer, Ground Tissue



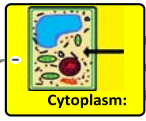
**Nucleolus**

- Function:** Ribosomes are made here
- Appearance:** Area in the Nucleus, Stains very darkly
- Location:** Found in the nucleus



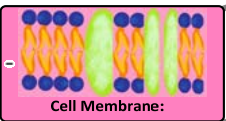
**Nucleus:**

- Function:** Control centre of the cell, Use genes to control protein production
- Appearance:** Have numerous nuclear pores, Contain chromatin (chromosomes not dividing), Has a double membrane, Contains the nucleolus
- Location:** Suspended in the cytoplasm



**Cytoplasm:**

- Function:** Surrounds all cell organelles
- Appearance:** Jelly-like fluid
- Location:** Surrounds all cell organelles



**Cell Membrane:**

- Function:** Retains cell contents, Control what enters/exits cell, Give support to cell, Recognise molecules
- Appearance:** Phospholipid bilayer (Phosphates - outside, Lipid - middle, Proteins embedded)
- Location:** Surrounds cell contents



**Ribosome:**

- Function:** Make proteins
- Appearance:** Composed of RNA, Small, Numerous
- Location:** Made in the nucleolus, Suspended in the cytoplasm