**Cell Structure Review Outline**

* For each of the following cellular structures, you will need to understand 1) the location within the cell, 2) cell type(s) in which the structure is present, 3) function(s) of the structure.

|  |  |  |
| --- | --- | --- |
| Cytoplasm | DNA | Chloroplast |
| Cell membrane | Nucleus | Mitochondria |
| Cell wall | Ribosome | Cilia |
| Lysosome | Endoplasmic reticulum | Flagella |
| Vacuole | Golgi apparatus |  |

* Cell Membrane
* Structure
* Function(s) of the cell membrane
* Function(s) of each component of the cell membrane
* Understanding of the following terms in relation to the cell membrane:
  + Lipid bilayer
  + Selectively permeable
  + Fluid mosaic model
* Passive transport
  + Understanding of how molecules move across the concentration gradient
  + Types
    - Diffusion
    - Osmosis
    - Facilitated diffusion
  + Accurate identification of solutions and understanding of how cells respond to hypertonic, hypotonic, and isotonic solutions
* Active transport
  + Understanding of how molecules move across the concentration gradient
  + Types
    - Endocytosis
    - Exocytosis
* Differentiation between prokaryotes & eukaryotes
* Differentiation between plant & animal cells
* Identify the three parts of the cell theory.