**Cell Structure and Organization (22 Terms) Biology Keystone Vocabulary**

**Chloroplast** – organelle in plant cells where photosynthesis takes place

**Cytoskeleton –** network of protein strands within the cytoplasm that help to move, shape, and divide cells

**Endoplasmic Reticulum (ER) –** system of folded membranes that help make, process, and transport proteins as

well as make lipids, *Two types*: rough (has ribosomes, transports proteins) and smooth (no ribosomes,

makes lipids and steroids)

**Eukaryote –** organism made up of cells with a membrane bound nucleus, specialized organelles, and mitotic nuclear division

**Extracellular –** located outside a cell

**Golgi apparatus –** organelle that processes and packages proteins to be released by the cell

**Intracellular** – located inside a cell

**Lysosome -**  vesicle that contains digestive enzymes

**Mitochondrion –** organelle surrounded by 2 membranes, place where cellular respiration takes place, produces ATP

**Multicellular** – made up of more than 1 cell

**Nucleus –** membrane bound organelle that contains the cell’s DNA, controls and regulates cell activities

**Organ –** a group of tissues working together

**Organ System -** group of organs working together to perform a specific function or task

**Organelle –** subunit within a cell that has a specialized function

**Plasma membrane –** phospholipid and protein molecule bilayer that surround a cell and controls the movement of materials in and out of the cell

**Plastids –** group of membrane bound organelles in photosynthetic organisms that are responsible for making and storing food (ex. Chloroplast)

**Prokaryote –** single celled organism that lacks a nucleus and specialized organelles

**Ribosome –** cell structure make of RNA and proteins where proteins are made, found in both prokaryotic and eukaryotic cells

**Tissue –** a group of cells organized to perform a similar function

**Unicellular –** made up of a single cell

**Vacuole –** organelle that is used to store materials like water and food

**Vesicle –** general name for a membrane bound sac that contains and transports materials within the cytoplasm (ex. Lysosome)