*Cell Organelles Test Study Guide KEY*

* Organisms made up of one cell are called \_\_\_\_\_\_\_\_unicellular\_\_\_\_\_\_\_\_\_\_\_\_
* Organisms made up of more than one cell are called \_\_\_\_\_\_\_\_Multicellular\_\_\_\_
* The smallest unit able to perform the activities of life is called \_\_\_\_Cell\_\_\_\_
* Cells without a nucleus are called \_Prokaryotic\_\_\_\_\_\_\_\_\_\_\_
* Cells with a nucleus are called \_\_Eukaryotic\_\_\_\_\_\_\_\_
* The three parts of cell theory are:
  + Every living thing is made of cells
  + The cell is the basic unit of structure & function of all living things
  + Cells come only from other living cells by cell division
* We know about cells and their components because of \_\_\_Microscope\_\_
* List the function of each of the organelles and tell whether they are in plants, animals, or both:
  + Cell membrane - the outer layer of the cell; separates the cell from the outside environment/protects the cell - BOTH
  + Cell wall - provides rigidity for the cell. Makes the plant cell look square – PLANT CELL ONLY
  + Cytoplasm – provides shake and form to the cell - BOTH
  + Chloroplast – Use energy from the sun to make food; makes plants appear green. PLANT CELLS ONLY
  + Mitochondria - breaks down food for energy to sustain the cell. BOTH
  + Vacuole - Larger in a plant cell; stores water and other materials; BOTH
  + Ribosomes – Where proteins are made in the cell; BOTH
  + Lysosomes - digests food particles, wastes, and foreign particles; BOTH
  + Nucleus - contains DNA and is the control center for the cell; BOTH
* Function means - What is the job/ what does it do
* Structure means – What it looks like/what it’s made of
* Why are plant cells’ vacuoles larger than animal cells’? Plants don’t know when they will receive water, so they must store more than an animal cell.
* List the four characteristics of all living things
  + Organization
  + The ability to grow and develop
  + The ability to reproduce
  + The ability to respond to the environment
* Groups of cells that are organized to do a specific job are called \_Tissues\_
* Each organelle having a specific function is called being \_Specialized\_\_\_
* The correct system of organization in living things is

Cells🡪Tissues 🡪Organs🡪 Systems = Organism

Cells -Basic unit of structure and function in an organism

Tissues - A group of similar cells working together to perform a task

Organs - Two or more tissues working together to perform a task

Organ Systems - Organs that work together to perform a task

Organism - A living thing that exhibits all characteristics of life

* Be able to label a diagram of a plant and animal cell. Use your diagram on page 10 of your interactive notebook you colored to study this.