

# 7<sup>th</sup> Grade Cells, and Levels of Organization Test Review

## Cell

- Cell Theory Know all three parts of the cell theory
  - All living things are made of cells
  - Cells are the basic units of structure and function
  - Cells come from pre-existing cells
- Single Celled Organisms can't specialize, they must fulfill all life functions, success is independent
- Multicellular Organisms Have to specialize; increased efficiency, more productivity, success is group based
- Prokaryote bacteria, they have no organelles except the cell membrane/wall, and ribosomes, generally much smaller
- Eukaryote much more complex, plantlike cells or animal like cells, many organelles, much larger in general with plant like cells being the largest
- Organelles Be familiar with all of the ones on the foldable/booklet
- Plant cells vs Animal Cells be familiar with which organelles are more common in which type; Animal Lysosomes, Plant Chloroplasts, Cell wall, Large Central Vacuole
- Diffusion/Osmosis movement of particles from a HIGH concentration to a LOW concentration

## Levels of Organization

- Terms for 1<sup>st</sup>-4<sup>th</sup> Cells Primary, Tissue Secondary, Organs Tertiary, Organ System Quaternary
- Specialization Benefits: increased efficiency, conserve resources and new possibilities Defects: Limited work area, dependence, Loss of Genetic variance
- Know common organs as listed in the Levels of Organization Booklet
- Know main organ systems start with the systems that were presented on, also the Levels of Organization Booklet

Vocab The whole list is available