

## Biology EOC Study Guide 2012/2013

### 1.1 Cells and Organelles

#### 1.1.1 - Cells organelles

- Nucleus: contains DNA (instructions)
- Plasma membrane: is very flexible and made of phospholipids; controls what goes in and out of the cell.
- Cell wall: found outside of the membrane in plant cells (bacteria and fungi too); forms a rigid, outer protection for the cell
- Mitochondria: creates energy; RESPIRATION occurs here= produces ATP (energy)  
*\*Remember that the mitochondria have folds on the inside that increase the amount of space available for energy production!*
- Vacuoles: sites of temporary storage; plants have a large one
- Chloroplasts: found in green plants and algae; where PHOTOSYNTHESIS occurs
- Ribosomes: site of protein production

*\*ALL organelles work together to perform the many functions of a cell! For example: DNA codes for protein that are assembled by ribosomes and used as enzymes for energy production at the mitochondria!!*



#### 1.1.2 - Microscope (prokaryote/eukaryote)

- When using a microscope, always start on low power. It gives you the largest view and allows you better find and focus on what you need. To determine total magnification, multiply the eyepiece x the objective. A compound light microscope is able to magnify an object up to about 1000X. An electron microscope can magnify up to 2 million times!



# Msce Biology Study Guide

**AN Whitehead**



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