**Topics for Cell Test**

* **Topics from Cell Quiz including:**
* Cell theory  
  Cell diversity - shape, size and organization
* Differences between prokaryotic and eukaryotic cells  
   Differences between plant and animal cells
* 4 structures that all cells have in common  
  Types of organelles (from your Parts of a Eukaryotic Cell WS) and their functions  
  Types of protists and their modes of locomotion
* **Make-up of the cell membrane** (phosphate head, fatty acid tails, hydrophobic, hydrophilic, polar, nonpolar, proteins)
  + Fluid mosaic model
* **Passive Transport** (no energy required) – 3 types:
  1. diffusion
  2. facilitated diffusion
  3. osmosis
     + hypertonic solution
     + hypotonic solution
     + isotonic solution
* equilibrium
* concentration gradient – high to low concentration (with or down the gradient)
* **Active Transport** (energy required) – 3 types:
  1. cell membrane pumps – Na/K pump
  2. endocytosis
  3. exocytosis
  + concentration gradient – low to high concentration (against the gradient)