Chapter 8 & 9 Test: What to Know

- autotroph / heterotroph and examples of each
- ATP & ADP
  - Structure
  - how energy is stored/released
- overall equation for photosynthesis
- overall equation for cellular respiration
- pigments
  - function
  - location
  - properties that allow separation by chromatography
- chloroplasts
  - structure
  - thylakoids
    - grana
  - stroma,
- photosynthesis diagram
  - inputs/outputs and locations
  - light dependent rxns – where?
  - light-independent rxns (Calvin cycle) – where?
  - how ATP & NADPH fit in
- NADPH & NADP+
  - Function
  - how energy is stored/released
- factors affecting rate of photosynthesis
- cross-section of internal structure of leaf
  - function of the different parts
- Glycolysis
  - Define
  - How much ATP produced per glucose molecule?
- cellular respiration diagram
  - inputs/outputs and locations
  - what organelle is the location of the process?
  - How much ATP produced per glucose molecule?
- aerobic & anaerobic
- fermentation – alcoholic & lactic acid
- exercise and time frame for lactic acid fermentation, cellular respiration
- weight loss and time frame for aerobic exercise
- cellular respiration – what kind of cells does it occur in?
- efficiency of cellular respiration – what happens to the rest of the energy that isn't used?