

Cell Energetics: Chapter 9 & 10 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?
 - what cell transport process is used to produce ATP?
 - light-independent rxns (Calvin cycle)
 - where?
 - how ATP & NADPH are energized and de-energized
- 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?