



<http://fcelter.fiu.edu/schoolyard/>

Photosynthesis

- I. Photosynthesis
 - a. What are autotrophs? Heterotrophs?
 - b. Describe the function of photosynthesis
 - c. What is chlorophyll?
 - d. What is the chemical formula for photosynthesis? How does it compare to respiration? Label the products and reactants.
 - e. Explain how photosynthesis is a redox process.
 - f. Outline the light reaction. Calvin cycle.
 - g. What is carbon fixation and where does the name come from?
 - h. Light
 - i. Wavelength
 - i. Visible light
 - ii. Photon
 - iii. What is a spectrophotometer used for?
 - iv. What is an absorption spectrum?
 - i. How are chlorophyll a and b different?
 - j. What are carotenoids?
 - k. Photosystem— structure and function
 - l. Compare/contrast cyclic and noncyclic electron flow
 - m. Compare/contrast chloroplasts and mitochondria
 - n. Why have plants evolved alternative photosynthetic pathways?
 - o. List and describe each of them.
 - p. How does each operate?