**Biology Study Guide**

**Chapter 8 – Photosynthesis**

* **Vocabulary**
  + Adenosine tri phosphate (ATP)
  + Heterotroph
  + Autotroph
  + Photosynthesis
  + Pigment
  + Chlorophyll
  + Thylakoid
  + Stroma
  + NADP+
  + Light-dependent reactions
  + Light-independent reactions
  + Calvin cycle
* **Objectives**
  + Describe the role of ATP in cellular activities.
  + Differentiate between autotrophs and heterotrophs.
  + Explain where plants get the energy they need to produce food.
  + Explain the role of light and pigments in photosynthesis
  + Explain the role of electron carrier molecules in photosynthesis.
  + State the overall equation for photosynthesis.
  + Describe what happens during the light-dependent reactions.
  + Describe what happens during the light-independent reactions.
  + Identify factors that affect the rate at which photosynthesis occurs.