**CH. 2: PRINCIPLES OF ECOLOGY RFC # 4**

* Read the following questions, **then** read from Cycling of Matter (p 45) to The carbon and oxygen cycles (p47), **then** answer the following questions on your own paper in **COMPLETE SENTENCES**
  1. What is the MAIN Idea of Section 3?
  2. What do natural processes in the environment do to nutrients?
  3. State the law of conservation of mass – include the definition of matter.
  4. What is a nutrient?
  5. What is the biogeochemical cycle and what does the cycle involve?
  6. How does water get into the atmosphere and from where?
  7. What happens to cooling water vapor in the atmosphere?
  8. In what forms does water vapor fall from the clouds?
  9. Into what does groundwater and runoff from land surfaces flow?
  10. From what does approximately 90% of water vapor evaporate? The other 10%?
  11. About what percentage of all freshwater is available for living organisms? Why is the remaining freshwater unavailable for use?
  12. Name the important molecules for which atoms of carbon form the framework.
  13. Name two molecules essential for life that are made up of carbon and oxygen.
  14. What do green plants and algae convert into carbohydrates during photosynthesis and what do they release back into the air?
  15. How is carbon dioxide recycled?
  16. How are fossil fuels formed and how is carbon dioxide released from them?
  17. How are carbon and oxygen released from deposits of limestone?