

**AP Biology**  
**Chapter 1 Guided Reading Assignment**

Name \_\_\_\_\_

1. Explain the properties of life listed below:
  - a. Order-life is characterized by highly ordered structure
  - b. Evolutionary adaptation- adaptations evolve over many generations by the reproductive success of fit individuals
  - c. Response to the environment- the reaction an organism has with the world around it
  - d. Regulation- the use of mechanisms of homeostasis to moderate internal changes in the face of external functions
  - e. Energy processing- living things use food to process energy in order to live. Plants process energy by collecting sunlight.
  - f. Growth and development- inherited genes used a certain code that controls growth and development organism.
  - g. Reproduction- all living things reproduce their own kind
2. List and define ALL ten levels of biological organization
  1. biosphere- consist of all the environments on earth that are inhabited by life
  - 2 ecosystem- consist of all living and non living things in a specific area
  - 3 communities- entire array of organism inhabiting a particular ecosystem
  - 4 populations- individual species living within the bounds of a specified area
  - 5 organism- individual living things
  - 6 organs+ organ system- body parts made up of 2 or more tissues
  - 7 tissues- a group of similar cells
  - 8 cells- smallest unit considered alive have different functions
  - 9 organelles- various components have made up cells
  - 10 molecule- consist of 2 or more atoms
3. Describe how energy flows through an ecosystem – can energy be recycled?  
Energy enters as sunlight and is used by producers to make simple sugars

# Ap Biology Chapter 52 Guided Reading Answers

**Randall Katzel**



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