

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

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M Lipman



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