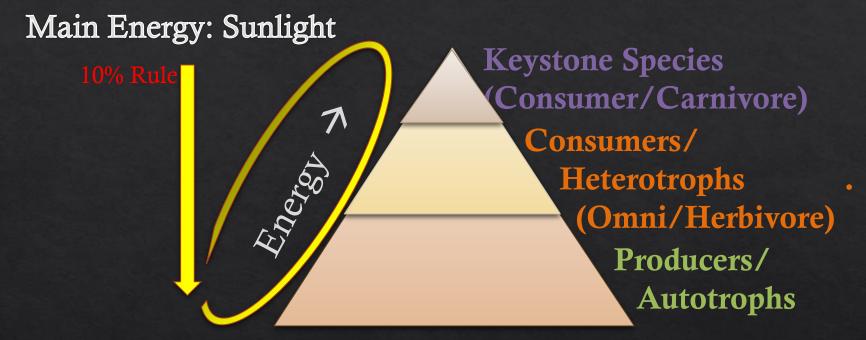
Flow of Matter and Energy

EQ: How does matter flow between abiotic and biotic factors?



- The energy from the Sunlight is absorbed by Autotrophs producing Glucose through Photosynthesis
- The energy from Glucose (Food) goes through Cellular Respiration or Fermentation to produce ATP.

Energy (Cont.)

 Adenosine Tri-Phosphate: the usable energy of cells.



- Living things need <u>energy</u> to survive.
- Energy stored as ATP in cells.
- Energy is released by breaking the chemical bond between the 2nd and 3rd phosphates.

Adenosine Di-Phosphate Adenosine Tri-Phosphate Energy Partially charged battery Fully charged battery

Flow of Matter and Energy

Photosynthesis and Cellular Respiration have three important elements: Carbon, Hydrogen, and Oxygen

 H_2O Water (liquid) CO_2 Carbon Dioxide O_2 Oxygen (gas) $C_6H_{12}O_6$ Sugar/Glucose

There are more elements and molecules involved, but these are the main molecules you'll need to learn.

