

Bio

ch. 4 (cont)

9-18-12

- > 2 energy-intake forms
 - Photosynthesis (plants)
 - Cellular Respiration (organisms) (aka glycolysis)
- > ATP = Adenosine Triphosphate
 - ADP + 1 Phosphate
- > Sunlight + H_2O + $CO_2 \rightarrow O_2$ + Sugar
- > Leaves = green b/c it's the only spectrum of sunlight a plant doesn't use.
 - Leaves = fall colors b/c chlorophylls (green color) are sucked out and stored in branches for survival

> C3 Photosynthesis.
(Rain Forest)

H_2O wasteful
Light efficient
Stoma open day

> C4 Photosynthesis
(Desert)

\leftarrow thru Stoma \rightarrow H_2O efficient
Light wasteful
Stoma open @ night

-C4 = most of the food we eat; b/c our agriculture has H_2O added to it thus it retains lots of water

- > Lactic Acid: created from cellular fermentation; post-exercise
- > Ethanol: created (by plants) from yeast