Respiration & ATP — Stage I Biology

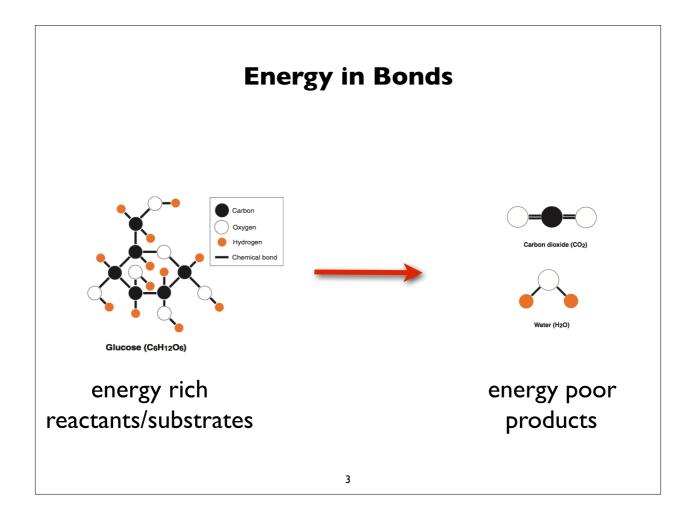
Cell Chemistry

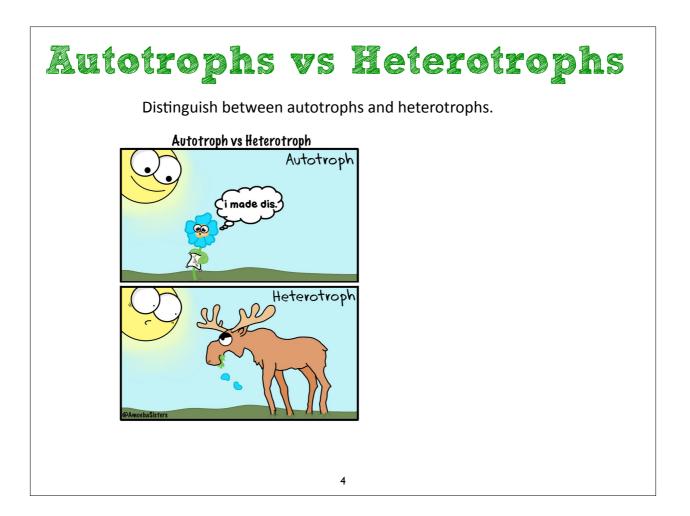
cell metabolism =

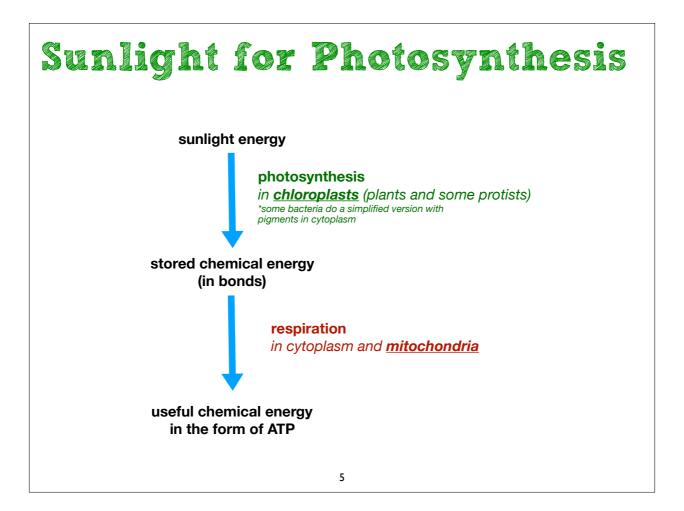
All metabolic reactions involve changes in energy (form or storage):

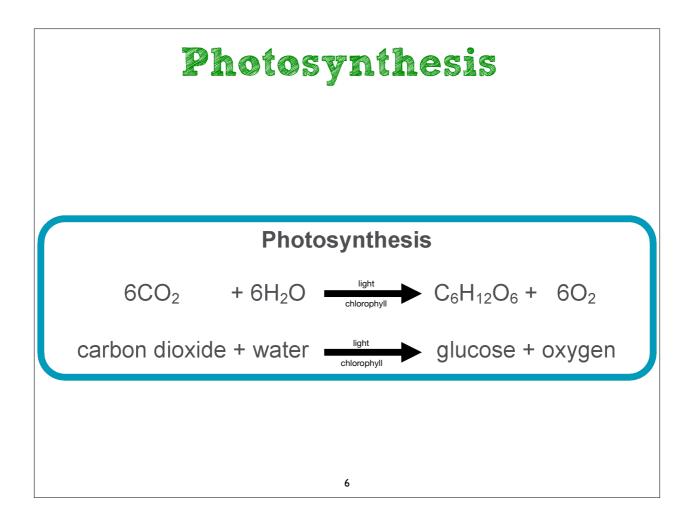
a) Anabolic Reactions (synthesis):

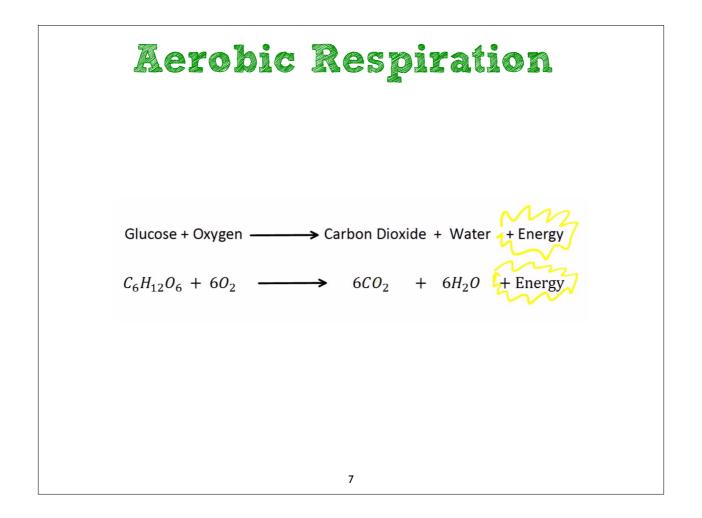
b) Catabolic Reactions (break down):

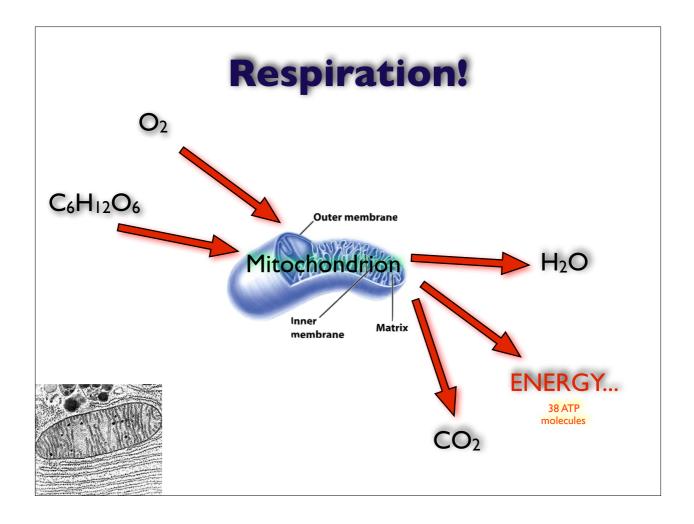


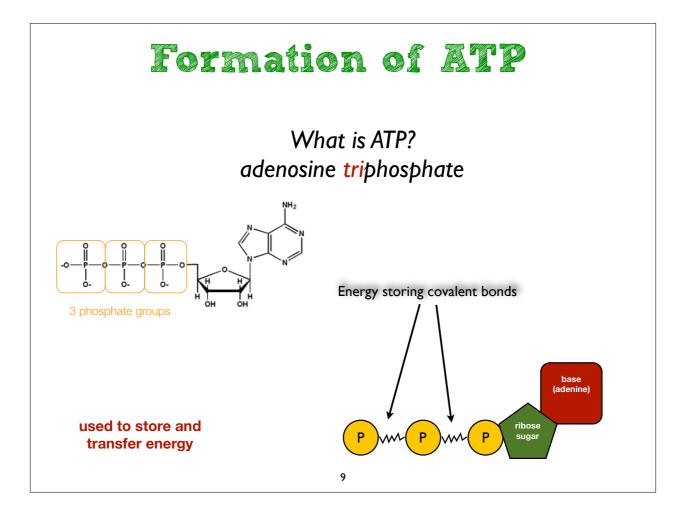


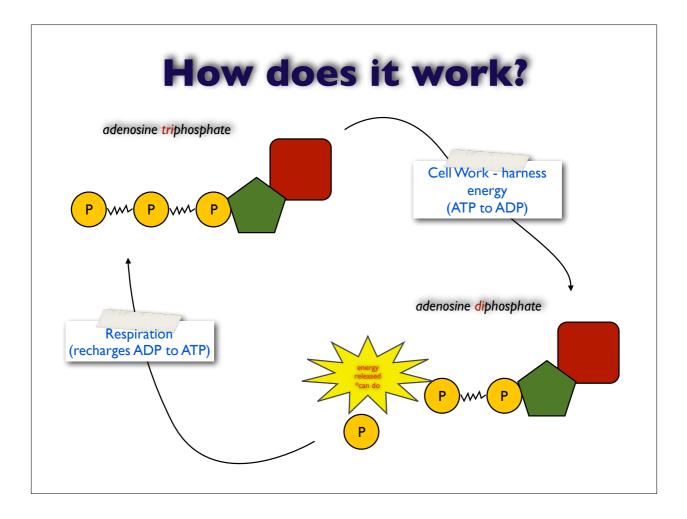


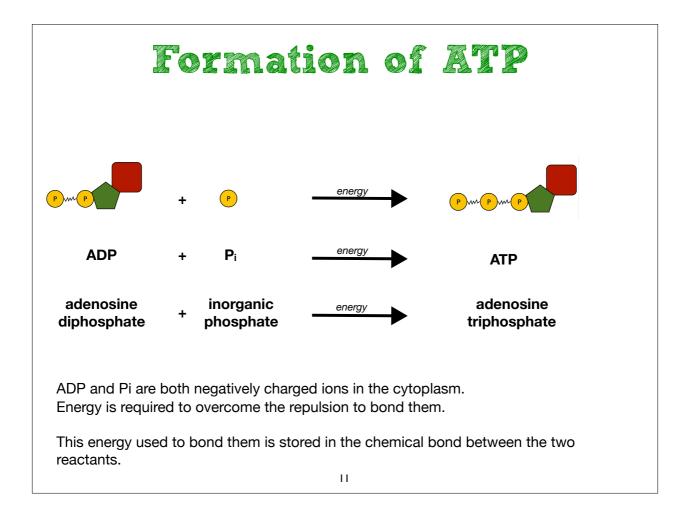


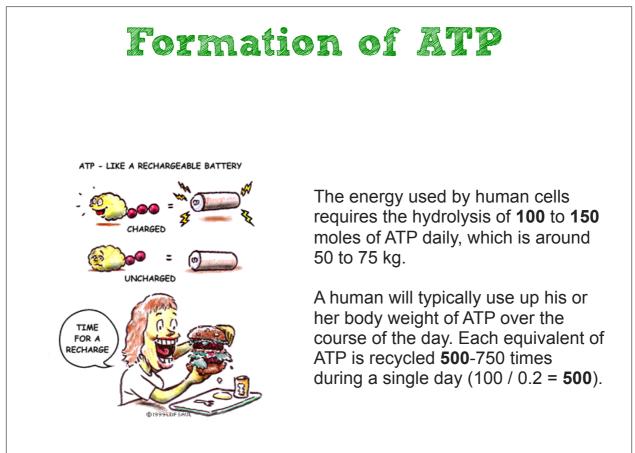


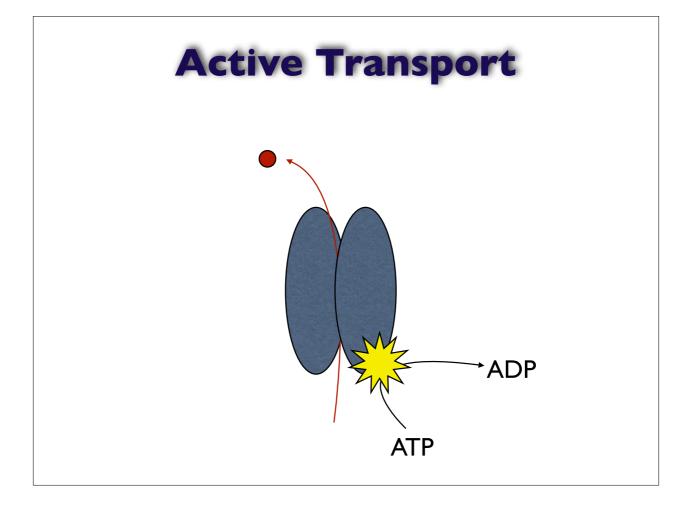


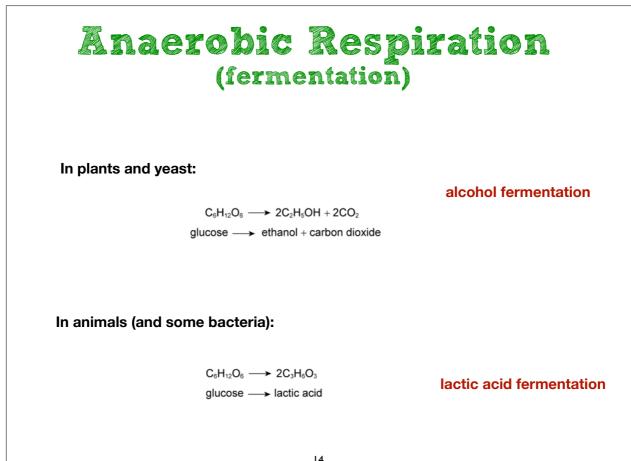












Energy Release Efficiency (aerobic respiration vs fermentation)	
Respiration produces energy in the usable form of ATP molecules.	
Aerobic Respiration	= 38 net ATP
Alcohol Fermentation Lactic acid Fermentation	= 2 net ATP = 2 net ATP
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