Living things convert

into exergy in a metabolic process called cellular respiration

Why do living things need to perform **cell respiration**?

To convert food into usable energy = ATP = currency of energy

How do living things perform **cell respiration**? 2 ways:

Requires oxygen?	Type of respiration	ATP Produced	Examples	Organisms (nusck
No	Anaerobic	2	Lactic acid ferme	rtation Bacteria
	(Glycolysia)		Alcohol fementation	Most Eulemystes
Yes	Aerobic	36-38		
			Cell membrane	Some prokasyotes

Aerobic Cellular Respiration

Needs	Oxygen Oz	Glucose GH206	ADP+Pi
Makes	Carbon dioxide	Water HED	ATP

• In eukaryotes, aerobic cellular respiration mainly occurs in the mitochondria

Enzyme = speeds up reactions

Summarize the process of aerobic cellular respiration using a chemical equation.
Summarize the process of aerobic cellular respiration using a chemical equation. Oxygen + Glucese+ ADP+PETTS Syntham Corbon dioxide water
ATP ATP
6 Oz+ CoHR 03+36 ADP+ R. Synthoses 6 CO2+6 H20+36 ATP
• Aerobic cellular respiration is a complimentary metabolic process to PLOTASYNTHESIS

· Together, <u>Photosynthesis</u> and <u>respiration</u> Casbon cycle (energy cycle) form the basis of the

Type of organism	Nutrition type	Source of energy	Performs respiration for ATP?
Plant (Ph.	oto) Autotroph Producer	Sunlight (radiant	Yes
Animal	Heterotroph	Food (Glucose)	Yes

