

REVIEW: Cellular Respiration

Cellular Respiration IS AEROBIC Respiration

It happens in



AUTOTROPHS

Autotrophs MAKE GLUCOSE
(photosynthesis)

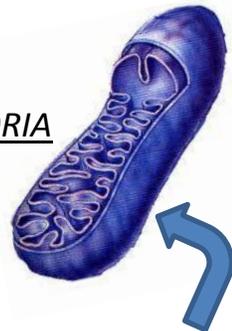


HETEROTROPHS

Heterotrophs EAT FOOD to get
GLUCOSE

They GET ENERGY when they BREAK THE BONDS in the GLUCOSE

Site of Cellular Respiration is the MITOCHONDRIA



“POWER PLANT”
of the cell

Remember: The **“MIGHTY MITOCHONDRIA”!**

Have the **MOST MITOCHONDRIA**



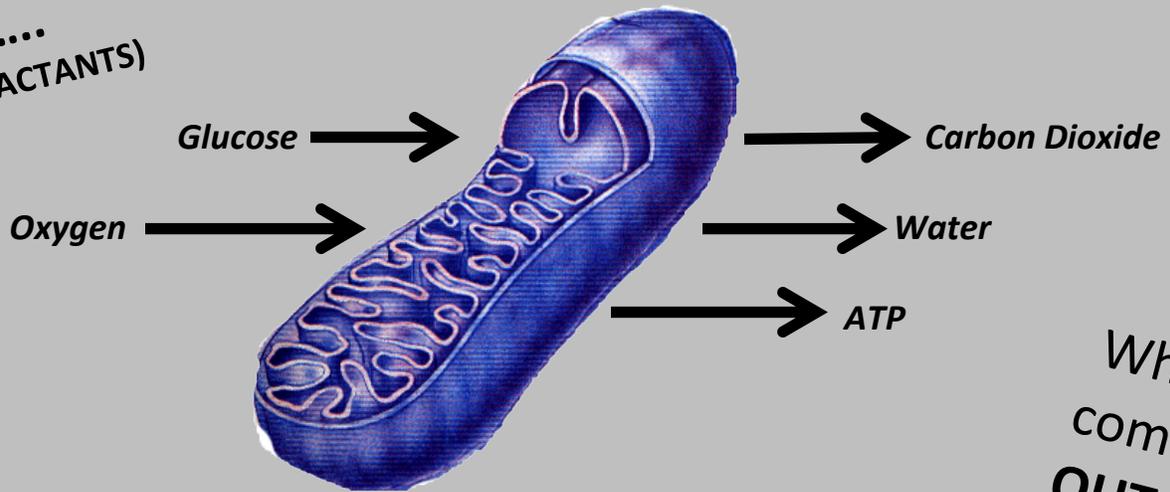
Brain



Muscles

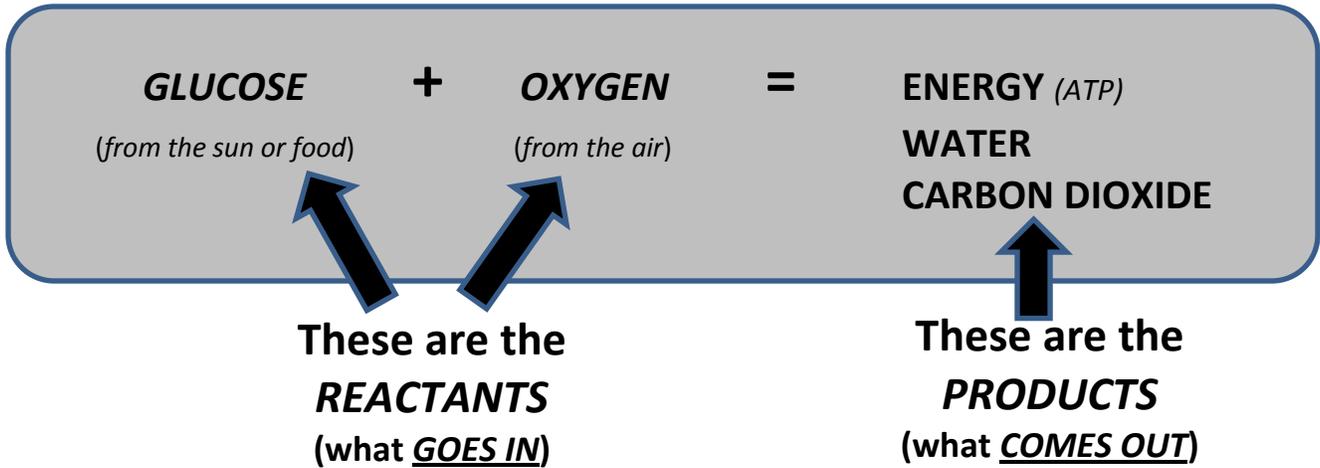
What
goes
IN.....
(REACTANTS)

The Mitochondria



What
comes
OUT.....
(PRODUCTS)

Cellular Respiration

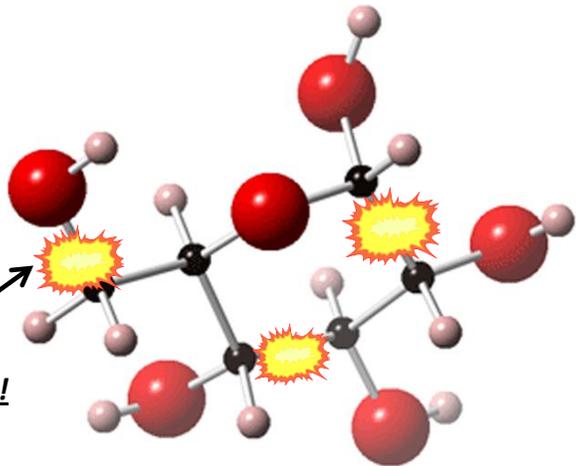


ATP is USABLE ENERGY!



It comes from the BREAKING of BONDS!

Energy is released!



Aerobic Respiration (Cellular Respiration)

- ✓ NEEDS OXYGEN
- ✓ Makes a lot of ATP
- ✓ Very EFFICIENT
- ✓ in MITOCHONDRIA



Anaerobic Respiration (Fermentation)

- ✓ NO OXYGEN needed
- ✓ Makes a little ATP
- ✓ Less EFFICIENT
- ✓ in CYTOPLASM



2 Types of Anaerobic Respiration

Alcohol Fermentation

- ✓ uses GLUCOSE to make ATP
- ✓ produces ALCOHOL & CARBON DIOXIDE



Lactic Acid Fermentation

- ✓ uses GLUCOSE to make ATP
- ✓ produces LACTIC ACID

Makes your muscles sore when you work out!



