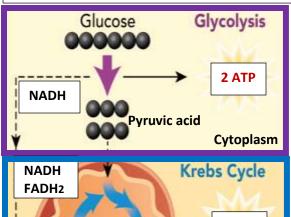
Cellular Respiration

 $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$

Happens in the MITOCHONDRION

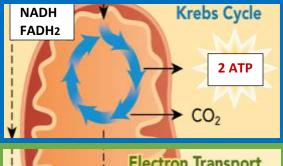
AEROBIC RESPIRATION: with oxygen



STEP 1 Glycolysis:

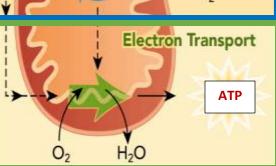
- Happens in the cytoplasm
- 1. Glucose is broken into 2 pyruvic acid (3-carbon)
- 2. NADH captures electrons

2 ATP are made



STEP 2 Krebs Cycle:

- Happens in the mitochondrial matrix
- 1. Pyruvic acid is broken into CO2
- 2. NADH and FADH2 captures electrons
 2 ATP are made



STEP 3 Electron Transport Chain:

- Happens in the inner membrane
- 1. NADH and FADH2 release electrons
- 2. Electrons release energy
- 3. Oxygen is the final electron acceptor; it picks up used electrons and becomes water

Up to 28 ATP are made

Total ATP: up to 32

