

Cellular Respiration: How animals create energy

Just like the chloroplasts that came from cyanobacteria, the mitochondria also came from an endosymbiotic relationship with early bacteria which made use of the new oxygen that was in the atmosphere. **Remember: Oxygen was a byproduct of photosynthesis.

The chemical equation for cellular respiration is as follows:



** this is essentially the reverse of photosynthesis**

Cellular Respiration is a THREE (3) step process:

1. Glycolysis
2. The Citric Acid (Krebs) Cycle
3. Oxidative Phosphorylation (E.T.C. / Chemiosmosis)

Glycolysis: Splitting Glucose has an investment and a payoff phase

