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Starts with high-energy electrons and low-energy ADP Pass electrons from one carrier to another Electron energy used to pump hydrogen ions (H⁺) to one side of membrane Establishes electrical gradient across membrane Electrical gradient used to make ATP from ADP - Chemiosmosis Ends with low-energy electrons and high-energy ATP

glycolysis. occurs in the cytoplasm, converts glucose into two 3-carbon molecules of pyruvate, results in two ATP and two NADH molecules, overall reaction is. Glucose + 2 NAD⁺ + 2 Pi + 2 ADP → 2 pyruvate + 2 NADH + 2 ATP + 2 H⁺ + 2 H₂O + heat. G3P (glyceraldehyde 3-phosphate)

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The set of reactions that use oxygen as the ultimate electron acceptor to produce adenosine triphosphate (ATP), generate heat, generate electrochemical gradients, and/or perform oxygen-dependent metabolic transformations. It is incorrect to equate cellular respiration (Fig. 1) with production of ATP (a vital energy compound in living cells) because some processes that produce ATP do not use oxygen and because some processes that use oxygen do not generate ATP.

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