

1. GLYCOLYSIS

glucose is phosphorylated by adding P_i from ATP

glucose (6C) substrate-level phosphorylation

occurs in cytosol

MAKES FADH₂ AND CO₂ by 5e ETC

(2x) Triose Phosphate (3C)

Result:
2 ATP
2 NADH
2 Pyruvate

(2x) Pyruvate (3C)

acetate (2C) → acetyl CoA (2C)

NAD⁺ is reduced vehicle in turn oxidizes each pyruvate to acetate

CELLULAR RESPIRATION

making energy from food

(2x ATP)

(6C glucose)

Cytosol
Mitochondria (2x input for entry)

2. Citric Acid Cycle (Krebs)

occurs in Mitochondrial Matrix
substrate-level phosphorylation

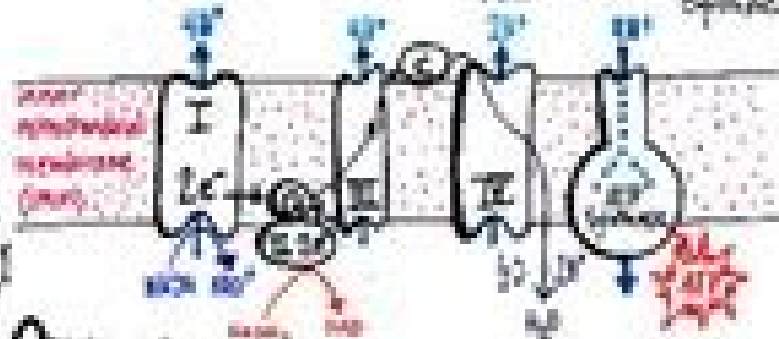
Result (per turn):
2 ATP
2 NADH
2 FADH₂
2 CO₂

3. Oxidative Phosphorylation

(Electrons are pumped across IMM)

concentration gradient is established & 'H⁺' move back into matrix via ATP synthase

Electron Transport Chain (ETC)
electrons are passed along a series of proteins releasing energy at each carrier



OXYGEN IS FINAL ELECTRON ACCEPTOR

Respiration Summary Sheet

**United States. Department of the
Army**

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Fact Sheets on Hazardous Substances ,1993 Current Catalog National Library of Medicine (U.S.),1992

Report of the Henry Phipps Institute for the Study, Treatment and Prevention of Tuberculosis Henry Phipps Institute,1915 Most of the vols contain reprints of articles contributed by members of the staff to various journals

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