

Phase	Location in Cell?	Initial Substrate	Molecules Produced?	Links to Other Phases?
Glycolysis	Prokaryotes: cytoplasm Eukaryotes: cytoplasm	Glucose	2pyruvate 2ATP 2NADH + H ⁺	Pyruvate to pyruvate oxidation NADH to electron transport chain
Pyruvate oxidation and Kreb's cycle	Prokaryotes: cytoplasm Eukaryotes: matrix of mitochondrion	Pyruvate (pyruvate oxidation) Acetyl-CoA (Kreb's)	6CO ₂ 8NADH + H ⁺ 2FADH ₂ 2ATP	NADH, FADH ₂ to electron transport chain
Electron transport chain	Prokaryotes: plasma membrane Eukaryotes: inner membrane of mitochondrion	NADH FADH ₂ O ₂ (aerobic respiration)	34ATP NAD ⁺ FAD H ₂ O	NAD ⁺ and FAD back to glycolysis and Kreb's

Table Of Summary Of Photosynthesis And Cellular Respiration

Roman Wölfel



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