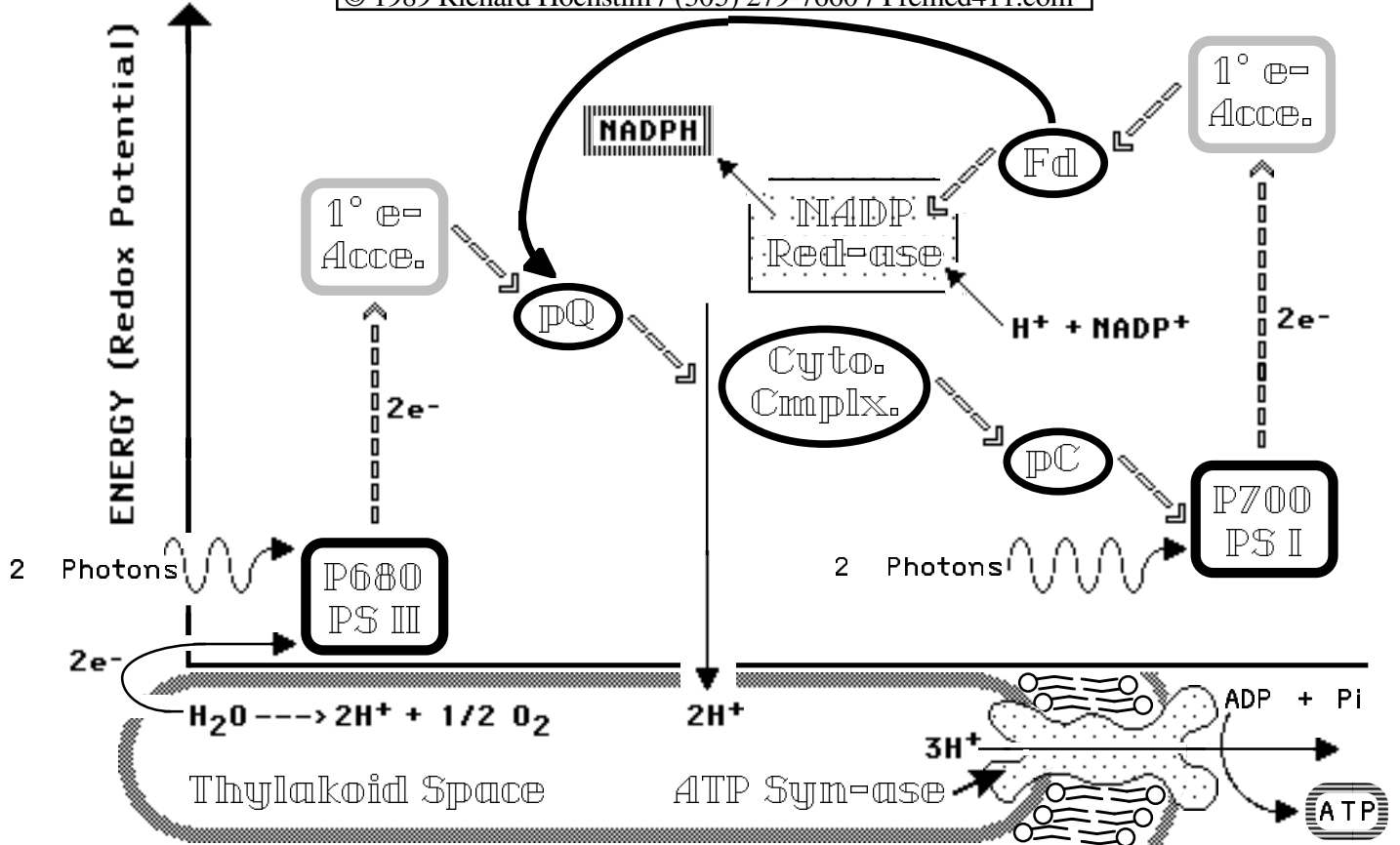
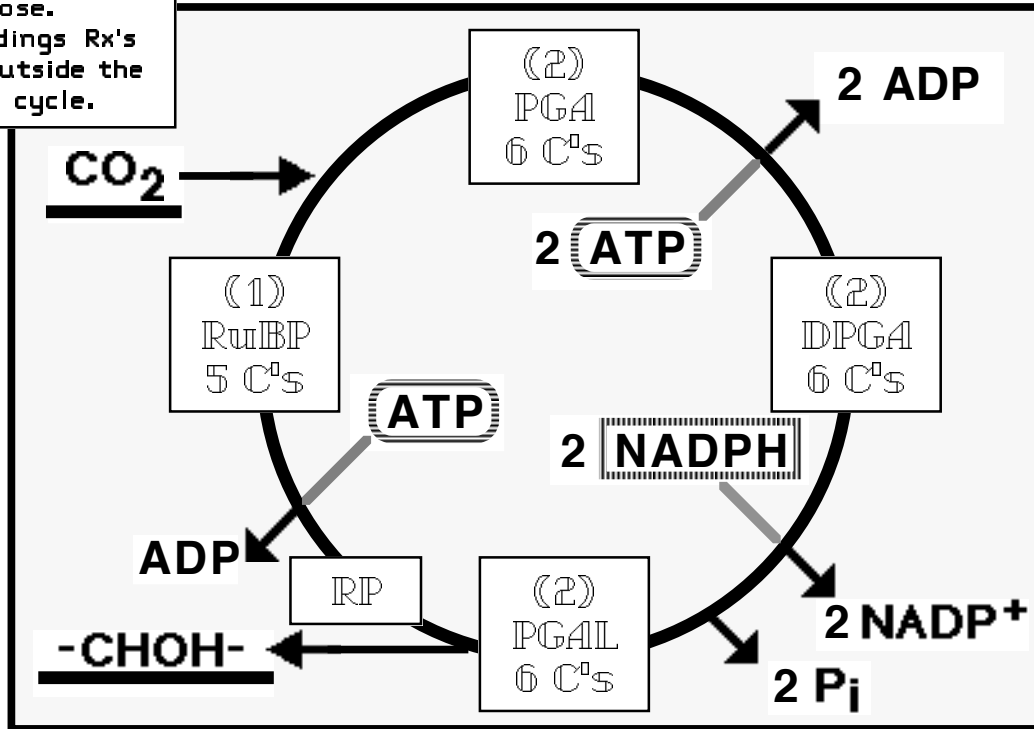
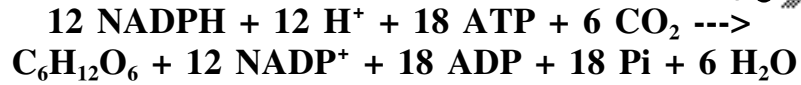


Photosynthesis & Calvin Cycle

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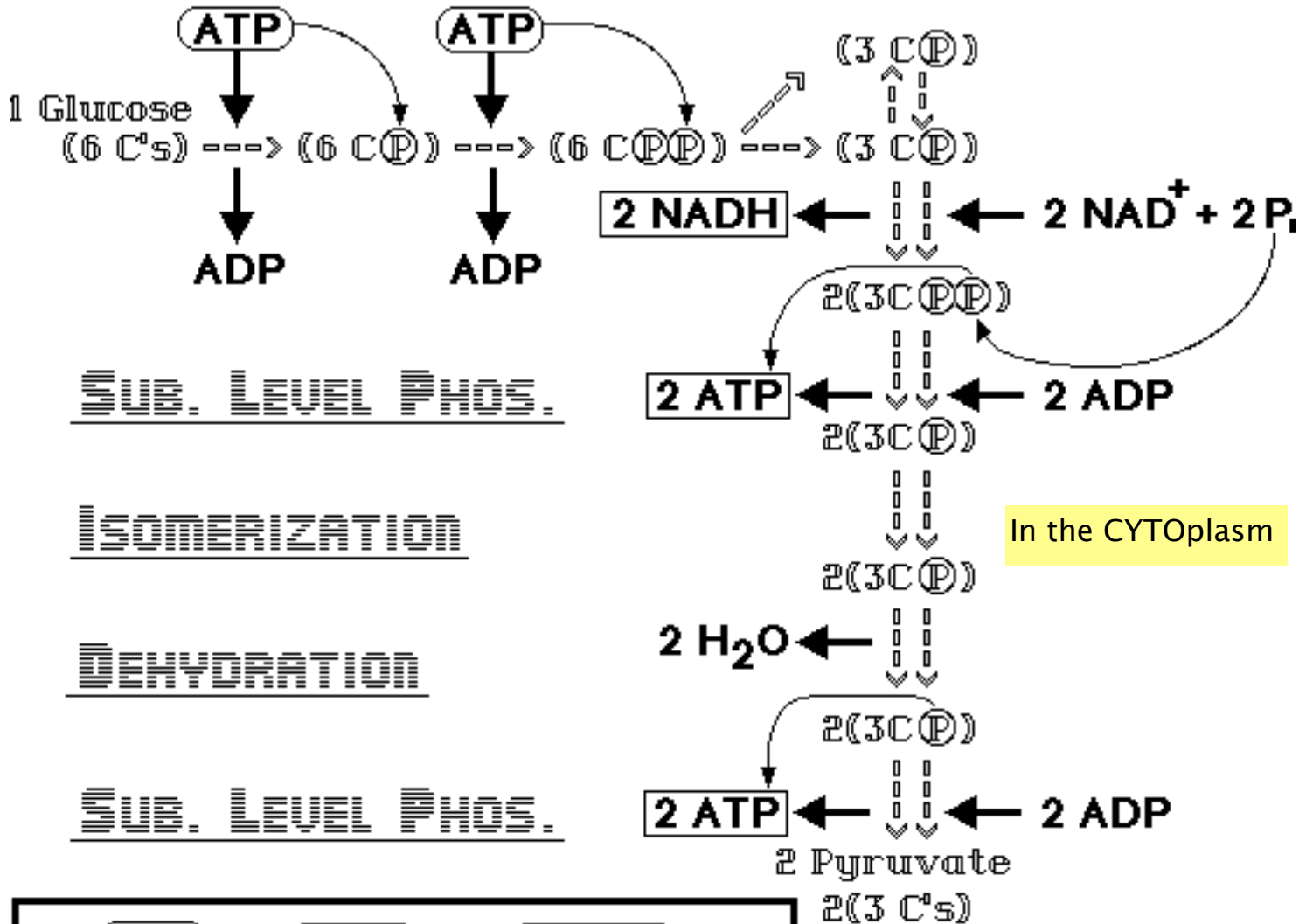


Net Rx----->
for making 1 mole of
glucose.
This includes Rx's
occurring outside the
Calvin cycle.

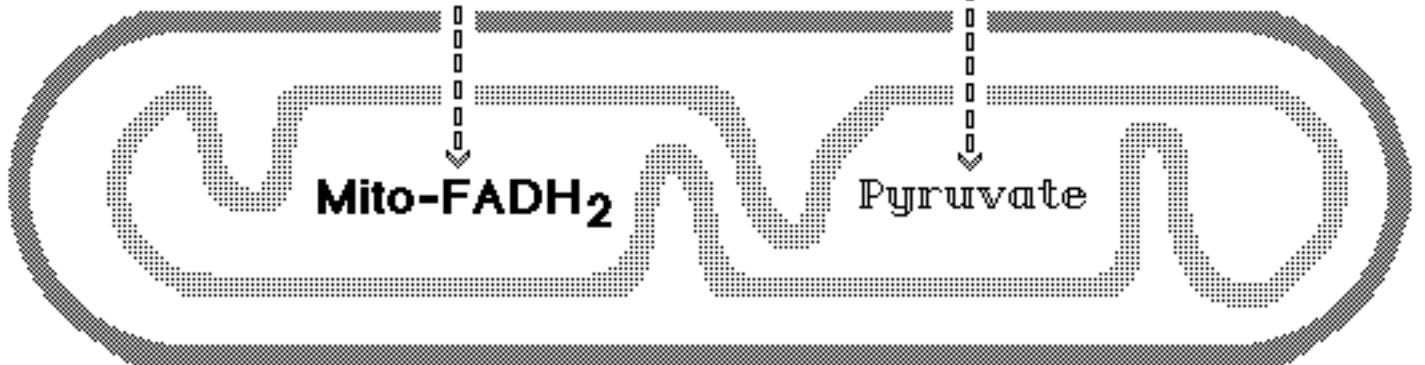


GLYCOLYSIS (in the cytosol)

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**- 2 (ATP) + 4 [ATP] & 2 [NADH] =
2 ATP (net) & 2 [NADH] per glucose**

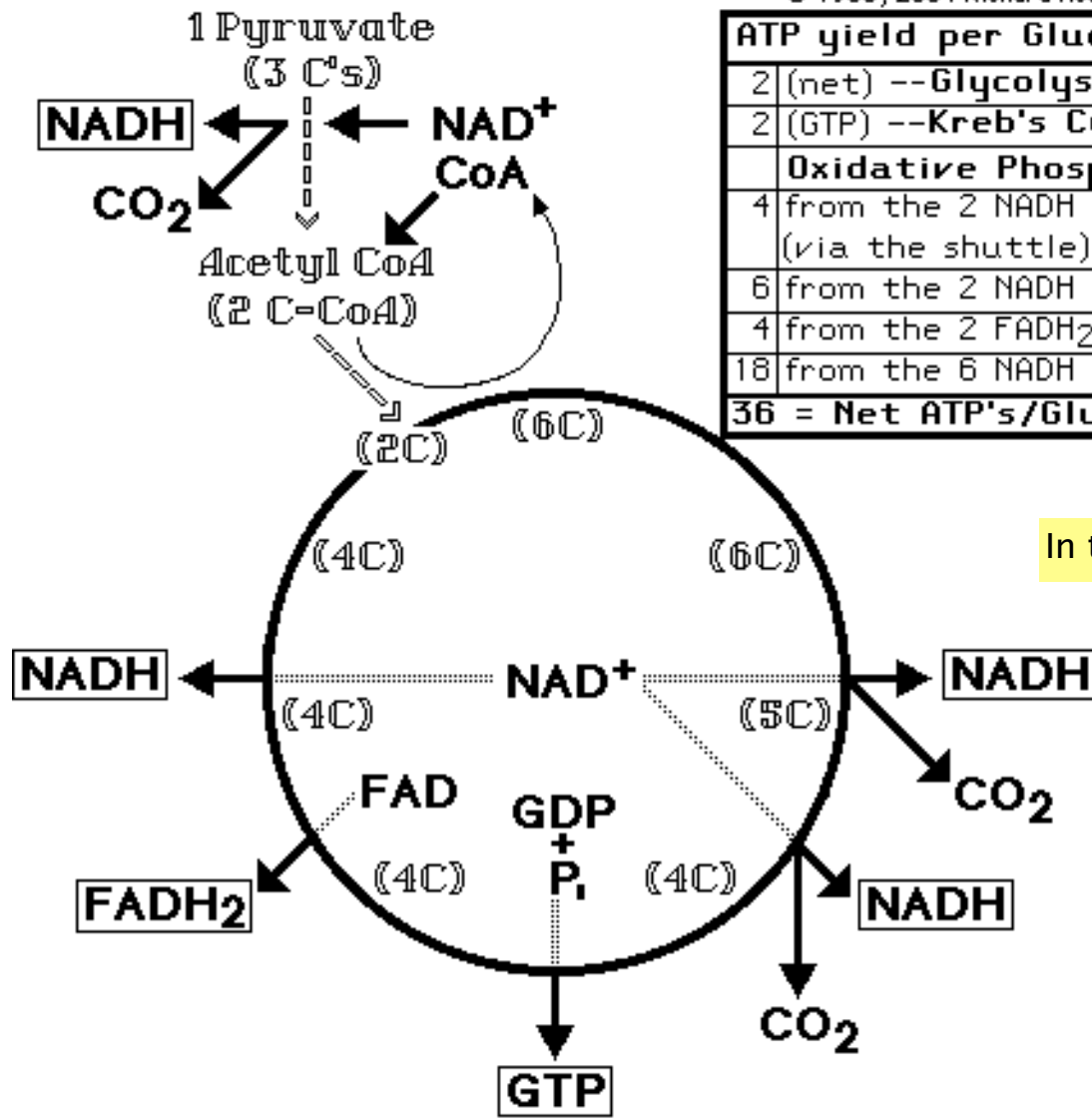


Decarboxylation of Pyruvate

The Kreb's Cycle

Oxidative Phosphorylation

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ATP yield per Glucose	
2 (net)	--Glycolysis (-2 ATP + 4 ATP)
2 (GTP)	--Kreb's Cycle
Oxidative Phosphorylation	
4	from the 2 NADH in Glycolysis (via the shuttle)
6	from the 2 NADH in Decarbo. of Pyr.
4	from the 2 FADH ₂ in Kreb's Cycle
18	from the 6 NADH in Kreb's Cycle
36	= Net ATP's/Glucose

In the MITO

