Stage 1 Glycolysis Cheat Sheet

by loboguy via cheatography.com/27609/cs/8141/

Glycolysis

Brings about the splitting of one molecule of Glucose (6 Carbon)

Into 2 X **3 Carbon molecules Pyruvate**

Takes place in the **Cystol/Cytoplasm**

First stage dosen't need oxygen **Anaerobic**

Two Stages of Glycolysis

Phosphorylation

Oxidation

Stage 1 Phosphorylation

Glucose is Phosphorlated

(Add a phosphate to)

Using Phosphate from ATP

Glucose 6-Phosphate

(Add another phosphate)

6 Carbon Biphosphate

Splits into 2 X 3 Carbon Sugar Phosphates

3 Carbon Sugar Phosphates= **Triose Phosphate x 2**

Stage 2 Oxidation

Triose Phosphate is Oxidised

Loses Hydrogen

Forms 2 X Pyruvate

NAD Collects hydogen's forming NAD.2H

Important

Glycolysis means **Sugar Splitting**

Glycolysis Start/Finish

Start	Finish
1 X 6 Carbon (6C) Glucose	2 X 3 Carbon (3C) Pyruvate

Important Points to Remember

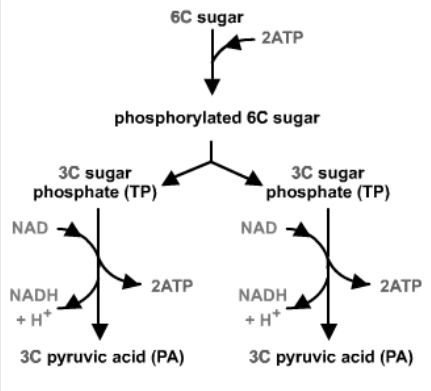
Energy stored in glucose goes into ATP and NAD.2H

Most of the Energy is **still** stored in **2 X Pyruvate**

Summary

Metabolic Pathway	Location	Starts With	Ends with
Glycolysis	Cytoplasm	Glucose	2 X Pyruvate

Image



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