

Pg 103  
1-3

## Stages of Photosynthesis

	Used	Produced
Stage 1	Light Water	Oxygen Hydrogen Ions
Stage 2	Electrons Hydrogen Ions	ATP NADPH
Stage 3	ATP NADPH CO <sub>2</sub>	Organic Compounds

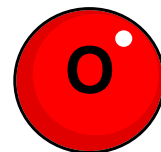
# Cellular Respiration

Before you can use the energy in the Food you eat your body must turn it into ATP.

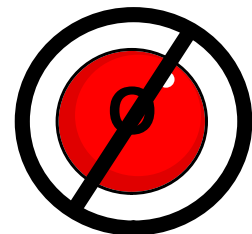
This process is called cellular respiration.

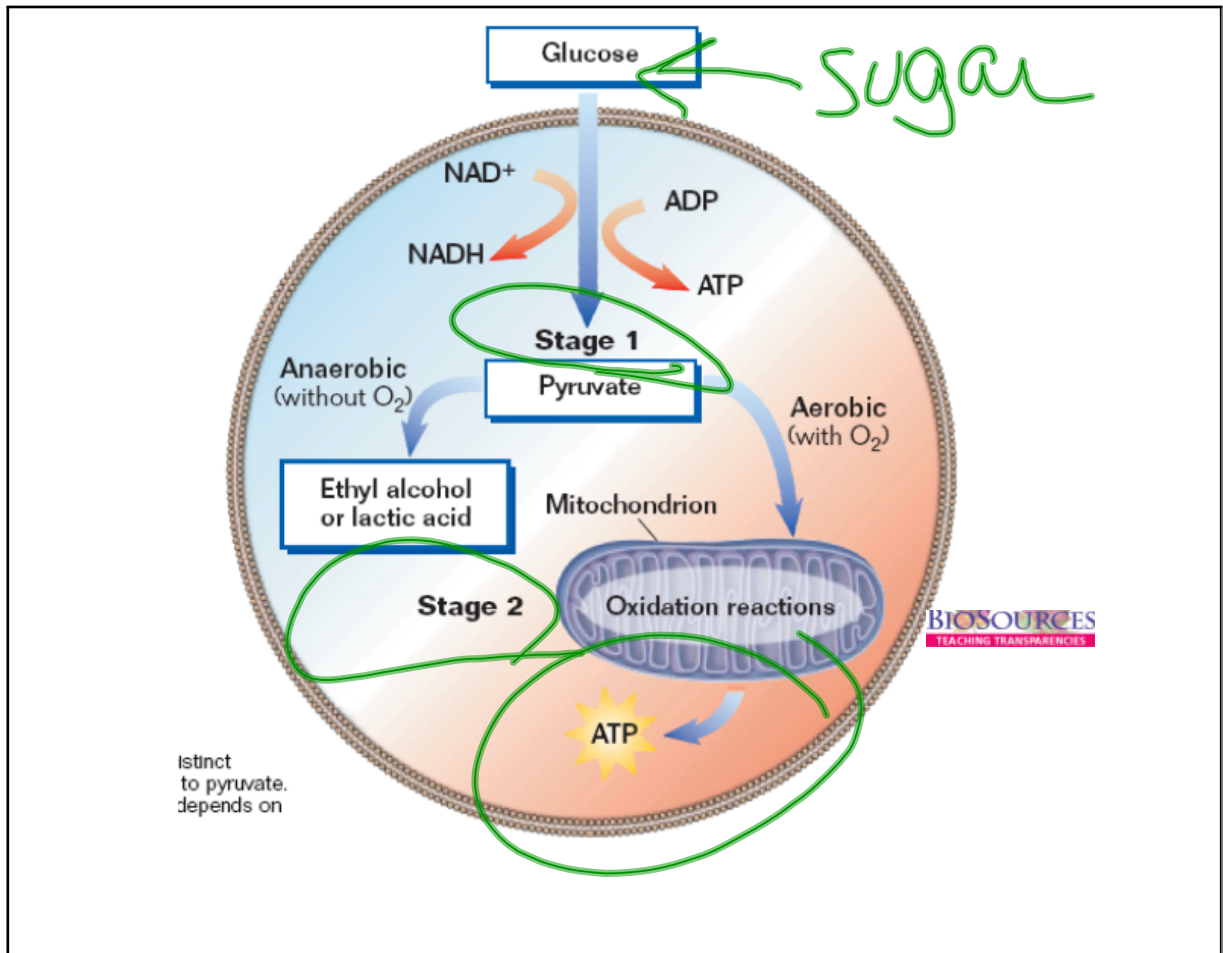
Oxygen in the air you breathe makes the process more efficient.

Aerobic - with oxygen



Anaerobic - without oxygen



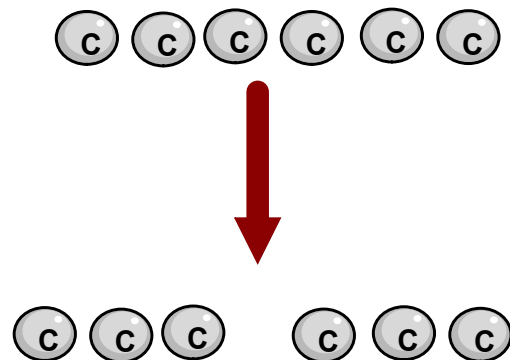


Glucose comes from carbohydrates

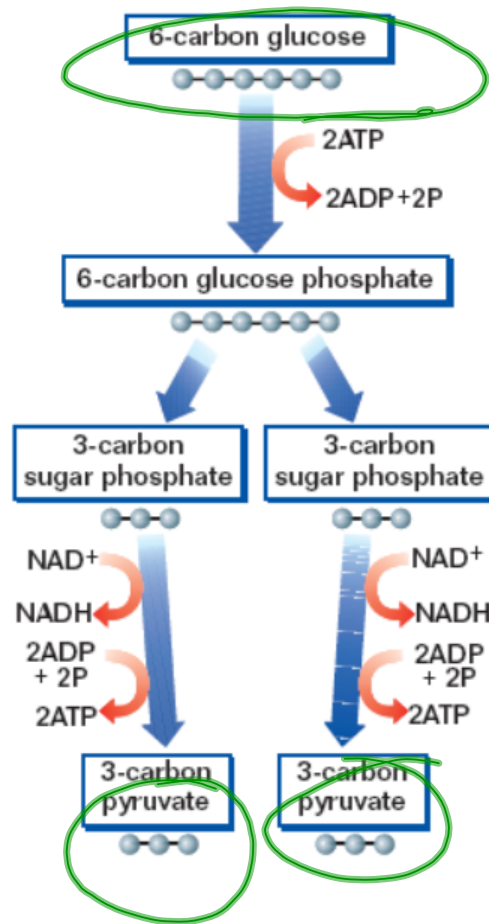
Glucose is the primary fuel for cellular respiration.

Stage 1 - Glucose  
broken down  
during  
Glycolysis.

Glycolysis- an enzyme-  
assisted anaerobic  
process that  
breaks down one  
six-carbon molecule  
into two three-carbon  
pyruvates.



This is the glycolysis complex process.

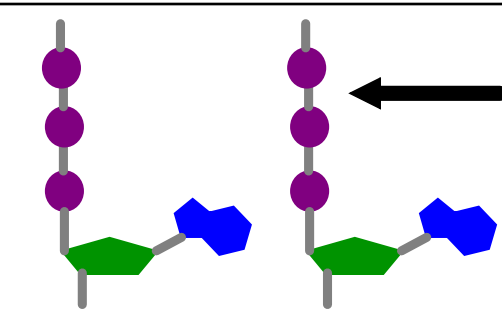


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BIOSOURCES  
TEACHING TRANSPARENCIES

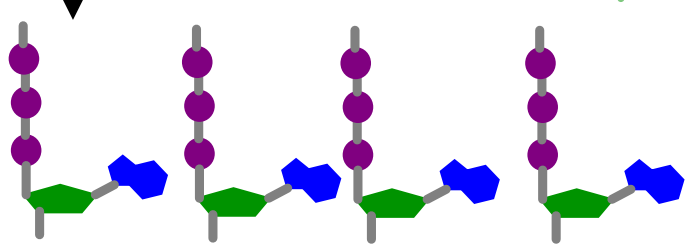


Needed in Stage 1

Made in Stage 1

So how many are gained?

2



2

4

Stage 2- More ATP is made by  
aerobic respiration.

This is called the Krebs Cycle