Guided notes for the Molecules of Cellular Respiration

Review:

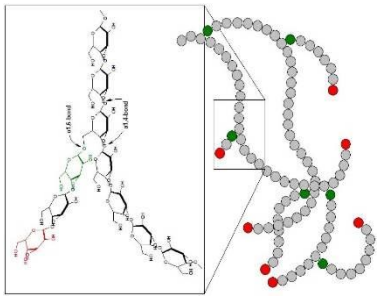
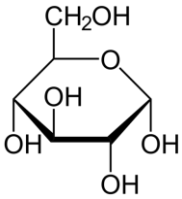
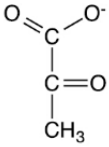
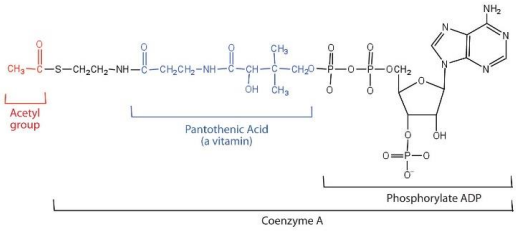
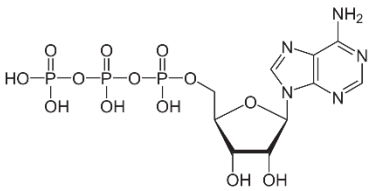
1. Formula for the conversion of radiant energy to chemical energy on Earth:

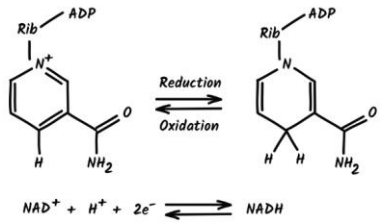
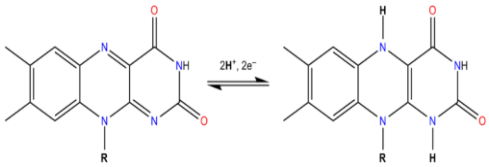
_____ + _____ + _____ → _____ + _____

2. autotroph

3. heterotroph

The major molecules present in cellular respiration:

Name of compound	Where it's gotten/made from	Diagram of structure & notes
Glycogen		
Glucose		
Pyruvate		
Acetyl-Co-enzyme A		
ATP (adenosine triphosphate)		

Nicotinamide dinucleotide phosphate (NADH)		
Flavin adenine dinucleotide (FADH2)		

The three reactions used in cellular respiration.

Introduction:

1. Aerobic respiration

2. Anaerobic respiration.

3. What is energy?

4. Anabolic reaction

5. Catabolic reaction

The major reactions that occur in cellular respiration are:

Reaction of CR	Where it occurs	What happens?
Step 1. Glycolysis		

Step 2. Kreb's cycle (aka Citric acid cycle or TCA cycle)		
Step 3. Electron transport chain (ETC)		