

*Goal: How do the processes of cellular metabolism **relate** to one another, and what is their **significance**?*

Answer the following questions:

1) Complete the following chart:

At which stage(s) in the overall process is each of the reactants used?		At which stage(s) in the overall process is each of the products produced?						
$C_6H_{12}O_6$	+	$6O_2$	→	$6CO_2$	+	$6H_2O$	+	Energy

2) Complete the following chart:

What is/are the overall function(s) of glycolysis?	What is/are the overall function(s) of the citric acid cycle (Kreb's cycle)?	What is/are the overall function(s) of oxidative phosphorylation?

3) Complete the following chart:

Are the compounds listed here <i>used</i> or <i>produced</i> in:	Glycolysis?	The Citric Acid Cycle?	Oxidative Phosphorylation?
Glucose			
O ₂			
CO ₂			
H ₂ O			
ATP			
ADP + Pi			
NADH			
NAD ⁺			
FADH ₂			
FADH			

