

**EXAM EXPECTATIONS**  
**AP Biology**  
**“Unit 8 Cellular Energetics”**

**STATE the efficiency of cellular respiration**  
**STATE the function of reverse transcriptase**  
**STATE the function of the Calvin cycle**  
**STATE the role that oxygen plays in cellular respiration**  
**STATE the form of energy least useful for living organisms**  
**STATE that the ( $\Delta G$ ) of reactants and products are unaffected by enzymes**  
**STATE the locations of glycolysis, citric acid cycle and oxidative phosphorylation**  
**STATE the locations of the light independent reactions and the light dependent**  
**STATE that most enzymes end in -ase**  
**DEFINE hydrolysis**  
**DEFINE entropy**  
**LIST variables that increase the rate of reactions**  
**LIST the reactants and products of glycolysis, citric acid cycle and oxidative phosphorylation**  
**LIST the reactants and products of the light independent reactions and the light dependent**  
**LIST characteristics of enzymes**  
**LIST components (structures) found in prokaryotic cells**  
**LIST the preferred order of nutrients catabolized to produce ATP**