ROSEDALE ACADEMY

SBI4U 2-2: Pyruvate Oxidation & Citric Acid Cycle Worksheet

1. Glycolysis occurs in the _____ of the cell.
2. Glycolysis does/does not (circle the correct choice) require the presence of oxygen to occur.
3. Glycolysis starts with a single molecule of:_____
4. The first 3 reactions of glycolysis require the input of _____ molecules of ATP.
5. At the end of reaction 5 a total of _____ molecules of G3P have been produced.
6. Reactions 6-10 occur _____ times for each molecule of glucose.
7. Each molecule of G3P produces _____ NADH molecule(s) and _____ ATP molecule(s).
8. The final products of glycolysis are _____ molecules of _____, which are used as the initial reactant of the next step in cellular respiration.

Complete the following table for the process of glycolysis:

Glycolysis Summary

ATP molecules produced	
ATP molecules consumed	
Net ATP produced (produced – consumed)	
NADH produced	
NADH consumed	
Net NADH produced (produced – consumed)	
Overall Energy Yield	ATP: NADH: