Internet Assignment: Calvin Cycle

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_\_

<http://highered.mcgraw-hill.com/sites/0070960526/student_view0/chapter5/animation_quiz_1.html>

1. The calvin cycle is a series of reactions that results in what?
2. Where does the calvin cycle occur?
3. During the Calvin cycle, CO2 is added to a 5-carbon molecule called what? What enzyme catalyzes this reaction?
4. Why does the resulting 6 carbon molecule quickly split into two molecules of 3- phosphoglycerate
5. What moelecules provide energy and reducing power to the calvin cycle, and what process produces these molecules?
   1. Energy = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Reducing Power = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. What does it mean, chemically, to be reduced?
7. What is the 3-phosphoglycerate converted to?
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. What are the two possible fates of the Glyceraldehyde 3 phosphate
   * 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
     2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. List the reactants and products of the Calvin cycle

Reactants 🡪 Products