**Honors Biology**

**Light Independent Reaction (Calvin Cycle)**

Name:

What three molecules are needed for the Calvin Cycle?

How many carbon atoms does RuBP have?

How many carbon atoms does PGAL have?

How many carbon atoms does Carbon dioxide have?

Where does the Calvin Cycle take place?

How many carbon atoms does the molecule have that is formed when CO2 and RuBP combine?

What enzyme helps the above molecule to split?

Draw the atoms found in the PGAL molecule:

Where does the energy to create PGAL molecules come from?

What molecules are left over after the formation of PGAL (molecules related to energy)?

How many PGAL molecules combine to make glucose?

What happens to the remaining 10 PGAL molecules?

What is the balanced chemical equation for Photosynthesis?

What is Carbon fixation?

What happens to the RuPB molecules once they are made?

How many ATP molecules are required to turn PGAL into RuBP?

What happens to glucose to the molecule into a different molecule?

What other molecules can glucose become?