Chloroplast

Equation for Photosynthesis:

**Light-Independent Reaction**
- Light-independent Reaction is also called __________ cycle or __________ Reaction.
- Where does it occur in the chloroplast?
- What comes in from the outside for the reaction?
- What two things are used from the light reaction?
- The dark reaction uses the above things to produce/make ________________
- This product can be used for ________________ during cellular respiration or can be converted into ________________, ________________, or other ________________, ________________.
- What are the four factors that affect the rate at which photosynthesis occurs?

**Light-Dependent Reaction**
- Light-dependent Reaction is also called __________ Reaction
- Where does it occur in the chloroplast?
- Draw some thylakoids:
- The pigment ________________ in the thylakoid converts energy from the ________________.
- What else comes in from the outside for the reaction?
- Where does this come from?
- In the reaction, the light energy splits ________________ to make ________________, which is released into the atmosphere.
- What two things are also created in this reaction (and used in the Calvin Cycle)?