Chapter 6 Review

**Light Dependent reaction:**

1. What powers the light dependent reaction?
2. What is the result of photons of light striking PS II?
3. As electrons pass through the ETC;
4. What happens to the H+ in the stroma?
5. What happens to the energy of the electrons?
6. How are electrons replaced into PS II?
7. What is produced at the end of the ETC and as a result of photons striking PS I?
8. Explain photolysis.
9. Explain what happens inside the lumen with regard to H+.
10. What structure do H+ ions pass through in order to generate ATP?
11. What is the process of making ATP in this way called?

**Light Independent reaction**

1. What are the 3 products that go into the Calvin cycle (light independent reaction)?
2. What 2 products are returned from the light independent reaction to the light dependent reaction?
3. Describe what happens to the carbon in carbon dioxide in the Calvin cycle.
4. What are the three products that result in G3P? What is the main product of these three?
5. Which of the following is an electron donor and which is an electron acceptor?

NADP+

NADPH