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Biology

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6a,b,7a,8a

6.

A. The light dependent reactions convert ADP and NADP+ to ATP and NADPH by using photons to fuel this reaction.

B.

1. Light is absorbed by pigments within Photosystem II. Electrons energy level is increased.

2. The high energy electrons are taken to the transport chain.

3. Once at the transport chain, energy is released which is used to bond NADP and H into NAPDH.

4. Photons are absorbed by pigments within Photosystem I which then follow steps of 2 and 3.

7.

A. The Calvin Cycle also known as light dependent reactions uses ATP as an energy source to make sugar.

8.

A. The three primary factors that affect the rate of photosynthesis is the amounts of photon a plant receives, the amount of water a plant receives , and the amount of nitrogen that the plant receives.