

- 1. Light strikes chlorophyll in photosynthesis, releasing an electron from each molecule. Through the formation of NADPH this electron will be part of the bonds between carbon atoms of sugars.
- 2. Chlorophyll⁺ gets the electron back(regenerating *chlorophyll, a true catalyst*) from the release of an electron by photosystem II
- 3. Photosystem II's chlorophyll⁺ (formed when different frequencies of light strikes chlorophyll)gets electrons back from water, which splits to form oxygen and H⁺. See above diagram for steps 4 and 5.