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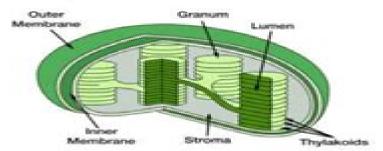
Photosynthesis Study Guide

You already have a Respiration Study Guide that you should review!!!!!

Pigments.

- What are the different types of plant pigments?
 Chlorophyll A and B, Xanthophyl, Carotenoids, ... Accessory Pigments
- Why are there different plant pigments? So that small amounts of green light can be absorbed and used by the plant for photosynthesis
- 3. Why are plants green? (Explain by using the terms absorb and reflect.) Plants have mostly green chlorophyll so they reflect green light back to our eye. They absorb all other colors to do photosynthesis
- 4. Where are the pigments contained within the chloroplast? In the thylakoid
- 5. What would you expect to happen if you grew a plant in green light? It would grow very slowly or die
- Draw and label the parts of a chloroplast. Know where each step of photosynthesis occurs.

Chloroplast



- 7. Why is the purpose of chromatography? To separate plant pigments to see the accessory pigments
- How does chromatography separate pigments? Alcohol causes each pigment to rise up the filter paper a different amount
- How does chlorophyll contribute the first step of photosynthesis? It is used in the light reactionchlorophyll captures the photons from the sun.

Photosynthesis

- 10. Write out the equation for photosynthesis. What is its relationship to the equation for respiration?
 6CO2 + 6H2O +sunlight → C6H12O6 + 6O2 It is the opposite of respiration.
- 11. What is the BIG idea of photosynthesis? Sugars are broken down to release energy
- 12. How did we measure the rate photosynthesis in lab? Why is this a reliable way to measure photosynthesis? We will still do this lab on Thursday! We will count the number of Oxygen bubbles coming off of underwater plant leaves.
- 13. From what step of photosynthesis do the bubbles in your lab come from? What is occurring to cause the bubbles? Light reaction is breaking down water and releasing Oxygen as waste.

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Terry C. Jones

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