

Photosynthesis Study Guide

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

Pigments

1. What are the different types of plant pigments?
Chlorophyll A and B, Xanthophyll, Carotenoids, ... Accessory Pigments
2. 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*
6. 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*
8. How does chromatography separate pigments? *Alcohol causes each pigment to rise up the filter paper a different amount*
9. How does chlorophyll contribute the first step of photosynthesis? *It is used in the light reaction- chlorophyll captures the photons from the sun.*

Photosynthesis

10. Write out the equation for photosynthesis. What is its relationship to the equation for respiration?
 $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$ *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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