

Name: _____

Photosynthesis Worksheet

Date: _____

1. What is the overall reaction for photosynthesis?



2. How does this compare to the overall reaction for cellular respiration?

It is the reverse of the overall reaction for cellular respiration.

3. Where does the energy for photosynthesis come from?

from sunlight

4. What plant pigments are involved in photosynthesis?

chlorophyll a, chlorophyll b, and carotenoids

5. Explain why chlorophyll appears green to us in terms of what happens to different wavelengths of light that strike a chlorophyll molecule.

We see light that bounces off of objects (reflected light). Chlorophyll is best at trapping and absorbing the red – orange wavelengths of light and the blue, indigo, and violet wavelengths of light. It is not good at absorbing the green wavelengths. The green light is reflected, so it is the part we see. Therefore, chlorophyll looks green to us.

6. How does the amount of energy in light change as the wavelength increases?

As wavelength increases, amount of energy decreases. Thus, violet light (which has a shorter wavelength) has more energy than red light (which has a longer wavelength).

7. Which colors of light are most effective for photosynthesis? Explain why.

Chlorophyll looks green to us because most of the green wavelengths are reflected rather than being absorbed. For this reason, green light is not an effective color of light to power photosynthesis. Chlorophyll a and b together absorb light most effectively in the blue to violet range and the orange to red range. Since violet wavelengths have the most energy in the visible light range (due to their shorter wavelengths) they can provide the maximum energy for photosynthesis.

8. In what organelle of a plant cell does photosynthesis take place?

in the chloroplasts

9. What are the two stages of photosynthesis?

light reactions and Calvin cycle

10. In which part of the chloroplast does each stage occur?

The light reactions take place in the thylakoids.

The Calvin cycle takes place in the stroma.

11. What happens to water molecules in the light reactions?

Water molecules (H_2O) are split to give electrons, H^+ ions, and oxygen gas (O_2).

12. What photosynthesis waste product is formed in the light reactions?

oxygen gas (O_2)

Answer Key For Photosynthesis And Respiration Pogil

Donna Latham



Answer Key For Photosynthesis And Respiration Pogil:

Key Concepts Rebecca L. Johnson,2014 **Photosynthesis and Respiration** John William Marklewitz,1995

Photosynthesis & Respiration Science Learning Guide NewPath Learning,2014-03-01 The Photosynthesis Photosynthesis Overview Leaf Structure Process of Photosynthesis Effects of Light Overview of Cellular Respiration Process of Cellular Respiration Connection between Photosynthesis and Fermentation Aligned to Next Generation Science Standards NGSS and other state standards *Photosynthesis and Respiration Progress Report* J. Mayo,1970 **Advances in Photosynthesis and Respiration** ,20?? **A Unit on Photosynthesis and Cellular Respiration for Secondary Biology Students** Kathy R. Pollock,1998 Photosynthesis & Respiration Cathrine M. Monson,2001* The Relation of Photosynthesis to Respiration John Wolfgang Weigl,P. M. Warrington,Melvin Calvin,1950 The gas exchange by barley leaves of oxygen carbon dioxide and added radiocarbon dioxide has been measured in a closed system with the following results 1 Carbon dioxide follows different but not necessarily independent paths in photosynthesis and light respiration 2 The carbon of newly formed photosynthetic intermediates is not available for respiration while the light is on but becomes immediately respirable in the dark The enhancement of dark respiration after a light period is largely due to built up photosynthates 3 Photosynthesis proceeds at a measurable rate even at the lowest CO₂ pressures observed 0.03 mm Hg There is no evidence for a threshold concentration of carbon dioxide for the reaction at the lowest concentrations reached respiration exactly equals assimilation 4 The mean rate of respiratory CO₂ evolution in strong light was found to be less than that in the dark Internal re photosynthesis of respiratory carbon may have been sufficient to account for this effect 5 The assimilation of C¹⁴O₂ is about 17% slower than that of C¹²O₂ **Respiration and Photosynthesis** Donna Latham,2008-07-01 **Secondary Students' Understanding of Photosynthesis and Respiration in Plants** Filocha Haslam,1987

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