

Name: _____

Date: _____

Photosynthesis Worksheet

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)

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web sep 4 2022 wado ryu karate punches zuki tsuki punch empi elbow strike gyakuzuki reverse punch haishu back hand haito ridge hand hitosashi ipponken knuckle strike 2nd knuckle of index finger ippon nukite one finger spear hand junzuki forward punch koken uchi wrist strike with the back of

wado ryu katas karate do - Feb 14 2023

web the name wadō ryū has three parts wa dō and ryū wa means harmony dō same character as tao means way and ryū means school or style harmony should not be interpreted as pacifism it is simply the acknowledgment that yielding is sometimes more effective than brute strength

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web feb 17 2021 wado ryu karate do one of the four major styles of traditional karate wado ryu boasts a rich history of its own and has evolved as a unique style of budo it incorporates a mix of ju jutsu and elements of ken jutsu and okinawan karate distinguishing itself from other karate styles

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web in 1951 Ōtsuka awarded tatsuo suzuki the rank of 5th dan the highest rank awarded in wadō ryū at that time in 1952 the wadō ryū headquarters honbu was established at the meiji university dojo in tokyo in 1954 its name was changed to zen nippon karate renmei all japan karate federation

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web history of wado ryu karate do a martial art born from the essence of jujitsu karate and kenjutsu history and timeline of the development of wado ryu karate do 1300 karate takes its early origins from the ryukyu islands now called okinawa japan

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web canadian wado ryu karate do federation a not for profit organization dedicated to promoting a better life style through karate free classes available top level dedicated instructors

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web wado ryu means the style of peace and harmony the style believes more in yielding instead of using sheer brute force against the opponent it is a style for self defense wado ryu isn't strictly an art of karate instead it comprises of shindo yoshin ryu jujutsu and modern day karate techniques