

Introduction to Photosynthesis

Objectives

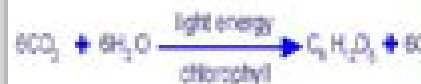
- State the overall equation for photosynthesis
- Describe the role of light and chlorophyll in photosynthesis

Investigating Photosynthesis

- Jan van Helmont was a Belgian physician in the 1600's
 - He put a small seedling in a pot of soil, watered it for five years
 - He found out the tree then weighed about 75 kg but the same mass as before
- Joseph Priestley was an English minister in the 1700's
 - He found there was something in the air the plants
 - He then tried the experiment again with a live sprig of mint, waiting a few days, and then tried to relight the candle
- Jan Ingenhousz was a Dutch scientist
 -

Photosynthesis: An Overview

Photosynthesis Equation



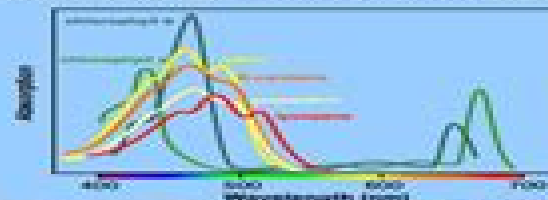
Introduction to Photosynthesis



Chlorophyll

- The plants' main pigment is chlorophyll
- There are two main types of chlorophyll:
 - Chlorophyll a: Blue-violet and red
 - Chlorophyll b: Blue and red

These photosynthetic pigments absorb much of the spectrum



Review

- State the overall equation for photosynthesis
 - $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
- Describe the role of light and chlorophyll in photosynthesis
 - Plants gather the sun's energy with light absorbing molecules called pigments. The principal pigment is chlorophyll

Class _____ Date _____

Introduction to Photosynthesis

candle remained lit in Priestley's experiment?

Ingenhousz observe about the effect discovered by Priestley?

do we use energy from the sun for?

equation for photosynthesis.

name of the pigment found in chloroplast?

1. why are plants green?

when light is absorbed by chlorophyll?

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Introduction to Photosynthesis

Objectives

- State the overall equation for photosynthesis
- Describe the role of light and chlorophyll in photosynthesis

Investigating Photosynthesis

- Jan van Helmont was a Belgian physician in the 1600's
 - Conducted experiments to find out how plants grow
 - He put a small seedling in a pot of soil, watered it for five years
 - He found out the tree then weighed about 75 kg, but the same mass as before
 - He concluded most of the increase in mass of the tree came from the water (he didn't know about carbon)
- Joseph Priestley was an English minister in the 1700's
 - He took a candle, placed a jar over it, and watched the candle go out
 - He found there was something in the air the plants
 - He then tried the experiment again with a live sprig of mint, waiting a few days, and then tried to relight the candle
 - The candle remained lighted for a while, why?
- Jan Ingenhousz was a Dutch scientist
 - He showed that the effect observed by Priestley (candle going out) occurred only when the plant was exposed to light

Photosynthesis: An Overview

- Plants use energy from the sun to convert water and carbon dioxide into carbohydrates (sugars & starches) and release oxygen as a waste product

Photosynthesis Equation



Class _____ Date _____

Introduction to Photosynthesis

candle remained lit in Priestley's experiment? The sprig of mint

Ingenhousz observe about the effect discovered by Priestley? and when the plant was exposed to light.

2. what do plants use energy from the sun for? To convert H₂O and CO₂ into glucose + release water as a waste product.

equation for photosynthesis.

name of the pigment found in chloroplast? Chlorophyll

is green? Chlorophyll does not absorb green light well.

3. when light is absorbed by chlorophyll? Energy from the sun is used to excite the electrons in the chlorophyll molecule.

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Guide Photosynthesis Answers

SJ Ball



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Table of Contents Guide Photosynthesis Answers

1. Understanding the eBook Guide Photosynthesis Answers
 - The Rise of Digital Reading Guide Photosynthesis Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Guide Photosynthesis Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Guide Photosynthesis Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Guide Photosynthesis Answers
 - Personalized Recommendations
 - Guide Photosynthesis Answers User Reviews and Ratings
 - Guide Photosynthesis Answers and Bestseller Lists
5. Accessing Guide Photosynthesis Answers Free and Paid eBooks
 - Guide Photosynthesis Answers Public Domain eBooks
 - Guide Photosynthesis Answers eBook Subscription Services
 - Guide Photosynthesis Answers Budget-Friendly Options

6. Navigating Guide Photosynthesis Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Guide Photosynthesis Answers Compatibility with Devices
 - Guide Photosynthesis Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Guide Photosynthesis Answers
 - Highlighting and Note-Taking Guide Photosynthesis Answers
 - Interactive Elements Guide Photosynthesis Answers
8. Staying Engaged with Guide Photosynthesis Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guide Photosynthesis Answers
9. Balancing eBooks and Physical Books Guide Photosynthesis Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guide Photosynthesis Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Guide Photosynthesis Answers
 - Setting Reading Goals Guide Photosynthesis Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Guide Photosynthesis Answers
 - Fact-Checking eBook Content of Guide Photosynthesis Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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may 29 2018 this lesson plan is well differentiated to the point where each group is challenged while there needs are being met simultaneously this plan includes lessons on 2d shape properties and classification lines of symmetry lines of symmetry in irregular shapes 2d shapes in different orientations classification of triangles

[year 5 space 3d objects from 2d representations lesson 2](#) - Jan 04 2022

use this engaging lesson pack to teach year 5 children to solve problems about 2d representations of 3d models this lesson teaches children to relate 3d objects to 2d nets children examine 3d objects from different viewpoints to identify nets and faces this resource includes a lesson presentation and plan and differentiated worksheets