

## Introduction to Photosynthesis

### Objectives

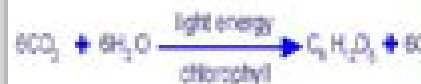
- State the overall equation for photosynthesis
- Describe the role of light and chlorophyll in photosynthesis

### 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

### 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 lit by plants) occurred only when the plants were exposed to light

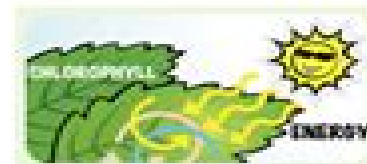
### Photosynthesis: An Overview

- 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



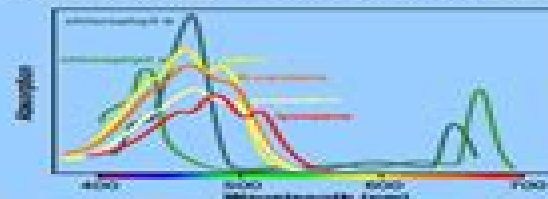
# Introduction to Photosynthesis



## 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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Class \_\_\_\_\_ Date \_\_\_\_\_

### Introduction to Photosynthesis

candle remained lit in Priestley's experiment? The sprig lit.

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 H<sub>2</sub>O and CO<sub>2</sub> 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

**Rachel Sandford**



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