

found that bacteria accumulated in blue and red light of the split spectrum. He thus discovered the effect of different wavelength of light on photosynthesis (action spectrum).

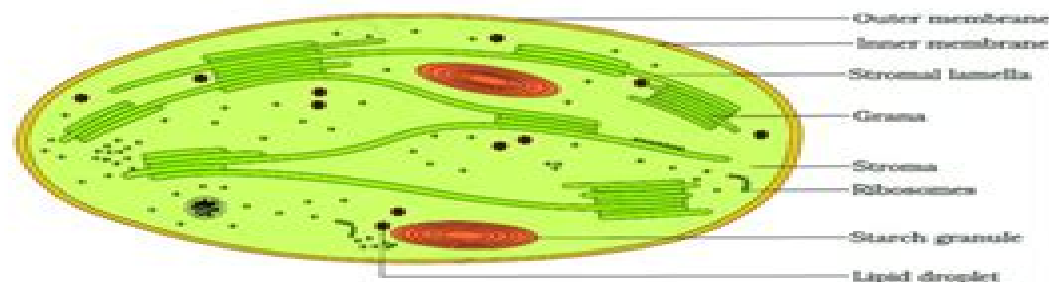
- **Cornelius Van Neil** (1897-1985) on the basis of studies with purple and green sulphur bacteria showed that photosynthesis is a light dependent reaction in which hydrogen from an oxidisable compound reduces  $CO_2$  to form sugar.



In green sulphur bacteria, when  $H_2S$ , instead of  $H_2O$  was used as hydrogen donor, no  $O_2$  was evolved. He inferred that  $O_2$  evolved by green plants comes from  $H_2O$  but not from  $CO_2$  as thought earlier.

#### Where Does Photosynthesis Takes Place?

- Chloroplasts are **green plastids** which function as the site of photosynthesis in eukaryotic photoautotrophs. Inside the leaves, chloroplast is generally present in mesophyll cells along their walls.
- Within the chloroplast there is a membranous system consisting of grana, the stroma lamellae and the fluid stroma.



- The membrane system is responsible for synthesizing light energy for the synthesis of ATP and NADPH. In stroma enzymatic reactions incorporate  $CO_2$  in plants leading to synthesis of sugar.
- The reaction in which light energy is absorbed by grana to synthesis ATP and NADPH is called **light reaction**. The later part of photosynthesis in which  $CO_2$  is reduced to sugar, light is not necessary and is called **dark reaction**.

# Essay Of Photosynthesis In Grade 11

**M Mark**



## **Essay Of Photosynthesis In Grade 11:**

## The Enigmatic Realm of **Essay Of Photosynthesis In Grade 11**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Essay Of Photosynthesis In Grade 11** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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