

# Investigating Limiting Factors Of Photosynthesis

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## Investigating Limiting Factors Of Photosynthesis

Limiting factors In 1905, when investigating the factors affecting the rate of photosynthesis, Blackmann formulated the Law of limiting factors. This states that the rate of a physiological process will be limited by the factor which is in shortest supply. Any change in the level of a limiting factor will affect the rate of reaction.

### Rate of photosynthesis: limiting factors

The same procedure as above can be used to investigate if light is needed for photosynthesis; Before starting the experiment the plant needs to be destarched by placing in a dark cupboard for 24 hours; This ensures that any starch already present in the leaves will be used up and will not affect the results of the experiment; Following destarching, a leaf of the plant can be partially covered ...

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5.1 Photosynthesis (A Level only) 5.1.1 Chloroplast Structures & their Functions; 5.1.2 The Light Dependent Reaction; 5.1.3 Photosynthetic Pigments; 5.1.4 Using the Products of the Light Dependent Reaction; 5.1.5 The Light-Independent Reaction; 5.1.6 Limiting Factors of Photosynthesis; 5.1.7 Investigating the Rate of Photosynthesis; 5.2 ...

## **Chloroplast Structures & their Functions | AQA A Level ...**

limited by several factors: light intensity, temperature, and carbon dioxide concentration. The rate of photosynthesis is unlikely to continue increasing even with high light intensities because e.g. carbon dioxide concentrations may not be optimal. Photosynthesis also requires CO<sub>2</sub> to be present as a solution of dissolved CO<sub>2</sub>.

## **The effect of different light intensities on the rate of ...**

Factors in an ecosystem that inhibit biotic operations like population growth are called limiting factors. Consider the difference between life in ocean surface waters and a deep ocean ecosystem ...

## **Biotic and Abiotic Factors in an Ecosystem**

2.6.1 Limiting Step in C<sub>3</sub> and C<sub>4</sub> Photosynthesis. If it gets too cold, the rate of photosynthesis will decrease. Plants cannot photosynthesize if it gets too hot. Furthermore, the rate drops if the temperature is too high because photosynthesis requires an enzyme, in both light-dependent and light-independent reactions. The light reactions use ...

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