

OCR (A) Biology GCSE

B1.4 - Photosynthesis

Flashcards

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Which type of organisms use photosynthesis to make their own food?



What type of organisms use photosynthesis to make their own food?

Producers



What type of reaction is photosynthesis?



What type of reaction is photosynthesis?

Photosynthesis is an endothermic reaction



Where does photosynthesis take place?



Where does photosynthesis take place?

Photosynthesis takes place in the chloroplasts



What is the word equation for photosynthesis?



What is the word equation for photosynthesis?

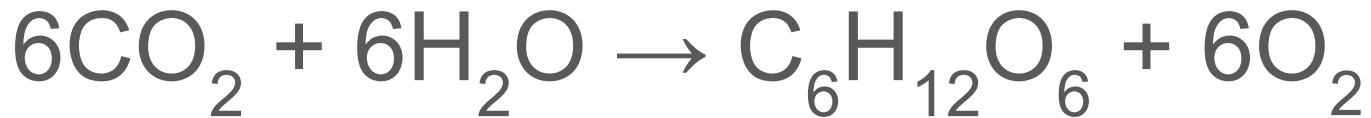
Carbon dioxide + Water → Glucose + Oxygen



What is the symbol equation for photosynthesis?



What is the symbol equation for photosynthesis?



What is the effect of temperature on the rate of photosynthesis?



What is the effect of temperature on the rate of photosynthesis?

- As temperature increases, so does the rate of photosynthesis
- Once the temperature exceeds the optimum, the rate of photosynthesis decreases as enzymes begin to denature



What is the effect of light intensity on the rate of photosynthesis?



What is the effect of light intensity on the rate of photosynthesis?

As the light intensity increases, the rate of photosynthesis increases



What is the inverse square law? (Higher)



What is the inverse square law? (Higher)

As the distance from the light source doubles, the light intensity quarters

Light intensity $\propto 1 / \text{distance}^2$



What is the effect of carbon dioxide concentration on the rate of photosynthesis?



What is the effect of carbon dioxide concentration on the rate of photosynthesis?

As the concentration of carbon dioxide increases the rate of photosynthesis increases



What is a limiting factor? (Higher)



What is a limiting factor? (Higher)

A factor that limits the rate of a reaction when there is not enough of it.

