

OCR (A) Biology GCSE

B1.4 - Photosynthesis

Flashcards

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

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Producers

What type of reaction is photosynthesis?

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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 \rightarrow Glucose + Oxygen

What is the symbol equation for photosynthesis?

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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.