

Edexcel Biology IGCSE

2.45B: Gas Exchange in Plants

Flashcards

This work by PMT Education is licensed under CC BY-NC-ND 4.0













What is the function of the hydrogen carbonate indicator?











What is the function of the hydrogen carbonate indicator?

We use this indicator to measure carbon dioxide levels.











What colour is hydrogen carbonate indicator at atmospheric CO₂ levels?









What colour is hydrogen carbonate indicator at atmospheric CO₂ levels?

Red













What colour is hydrogen carbonate indicator at low CO₂ levels?











What colour is hydrogen carbonate indicator at low CO₂ levels?

Magenta / purple











What colour is hydrogen carbonate indicator at high CO₂ levels?











What colour is hydrogen carbonate indicator at high CO₂ levels?

Orange / yellow













What colour would you expect the indicator to be when the pondweed is close to the light source?











What colour would you expect the indicator to be when the pondweed is close to the light source?

Purple.

CO₂ levels low as photosynthesis rate is high.

Net uptake of CO₂









What are the controlled variables for this practical?











What are the controlled variables for this practical?

- 1. Volume of hydrogen carbonate indicator
- 2. Species of pondweed
- 3. Time
- 4. Temperature





