

WJEC England Biology

A-level

SP C1 02c - Plant Growth

Flashcards

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What is the function of nitrogen in plants?



What is the function of nitrogen in plants?

To synthesise amino acids.



What is the function of magnesium in plants?



What is the function of magnesium in plants?

To synthesise chlorophyll.



What are the controlled variables of this practical?



What are the controlled variables of this practical?

Environmental conditions; light, temperature, humidity

Species of seedlings

Starting size of seedlings

Number of seedlings in each group



What is the independent variable of this practical?



What is the independent variable of this practical?

The content of the culture solution.



What are the 3 groups of seedlings to be set up in this practical?



What are the 3 groups of seedlings to be set up in this practical?

1. A full culture
2. A culture without magnesium
3. A culture without nitrates



How should the seedlings be compared?



How should the seedlings be compared?

By measuring the length of the roots and shoot and the dry mass.



Why should the seedlings be dried before weighing?



Why should the seedlings be dried before weighing?

Seedlings may have varying water content, so must be dried to allow comparison between seedlings.

Dry mass is biomass.



State a hazard and safety precaution involved in this practical.



State a hazard and safety precaution involved in this practical.

Culture solution may be an irritant. Avoid contact with skin and wear safety goggles.

