

# WJEC Wales Biology GCSE

## 1.5 (I) - Minerals

### Flashcards

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# What minerals do plants require for growth?



# What minerals do plants require for growth?

- Nitrogen
- Potassium
- Phosphorus



In what form is nitrogen taken in by plants?



In what form is nitrogen taken in by plants?

As nitrates



# Why do plants require nitrogen?



# Why do plants require nitrogen?

Used to produce amino acids which join to form proteins



What are the symptoms of  
nitrogen-deficiency in plants?





# What are the symptoms of nitrogen-deficiency in plants?

- Poor growth
- Yellow leaves



# Why do plants require potassium?



# Why do plants require potassium?

Activates enzymes involved in photosynthesis and respiration



What are the symptoms of potassium-deficiency in plants?



What are the symptoms of potassium-deficiency in plants?

- Yellow leaves
- Poor flower growth
- Poor fruit growth



In what form is phosphorus taken in by plants?



In what form is phosphorus taken in by plants?

As phosphates



# Why do plants require phosphorus?





# Why do plants require phosphorus?

## Used to form DNA and cell membranes



What are the symptoms of phosphorus-deficiency in plants?



# What are the symptoms of phosphorus-deficiency in plants?

- Poor root growth
- Discoloured leaves



How can farmers artificially increase the concentration of minerals in the soil?



How can farmers artificially increase the concentration of minerals in the soil?

Using NPK fertilisers



# What are NPK fertilisers?



# What are NPK fertilisers?

A type of fertiliser that contains nitrogen (N), phosphorus (P) and potassium (K)

