

Plant Nutrition Quiz PDF

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Explain how mycorrhizal associations benefit plant nutrient uptake.

Which micronutrient is essential for chlorophyll synthesis?

- Zinc
- Copper
- Iron
- boron

Which soil factor most directly affects nutrient availability to plants?

- Soil texture
- Soil pH
- Soil temperature
- Soil color

Which nutrient is primarily responsible for chlorophyll production in plants?

- Phosphorus
- Nitrogen
- Potassium
- Calcium

Which environmental factors affect nutrient uptake in plants? (Select all that apply)

- Light intensity
- Soil pH
- Air pressure
- Water availability

Discuss the impact of soil pH on nutrient availability and plant health.

Which elements are considered micronutrients for plants? (Select all that apply)

- boron
- Magnesium
- Zinc
- molybdenum

What is the primary function of calcium in plants?

- Photosynthesis
- Cell wall stability
- Energy transfer
- Enzyme activation

Which nutrient is crucial for energy transfer in plants?

- Magnesium
- Sulfur
- Phosphorus
- Chlorine

Which type of fertilizer is known for providing nutrients slowly over time?

- Quick-release
- Liquid
- Organic

Inorganic

What are common symptoms of potassium deficiency in plants? (Select all that apply)

- Leaf necrosis
- Stunted growth
- Intervenal chlorosis
- Weak stems

Compare and contrast the roles of macronutrients and micronutrients in plant nutrition.

What is the main role of potassium in plant nutrition?

- Root development
- Leaf growth
- Stomatal regulation
- Cell wall formation

Which nutrients are involved in enzyme activation in plants? (Select all that apply)

- Potassium
- Calcium
- Magnesium
- Copper

Which of the following are macronutrients required by plants? (Select all that apply)

- Nitrogen
- Iron
- Potassium
- Zinc

What are the consequences of nutrient deficiencies on plant growth and development? Provide examples.

Describe the process by which plants absorb nutrients from the soil.

Which of the following practices can improve soil nutrient availability? (Select all that apply)

- Crop rotation
- Over-fertilization
- Maintaining optimal pH
- Waterlogging

What symptom is commonly associated with nitrogen deficiency in plants?

- Intervenal chlorosis
- Leaf necrosis
- Stunted growth
- Yellowening of leaves

How do sustainable fertilization practices contribute to plant nutrition and environmental health?

