

Soil in Agriculture

Catalogue Number	77-3102-0002
Category	Agriculture
Duration	15 Hours

Lesson 1: Soil

Development of Soil Science Soil Composition and Texture Example: Using the Soil Texture Triangle Soil Structure Task 1: Demonstrating Benefits of Good Soil Structure Soil and Microorganisms Plant Nutrients and the Soil Task 2: Experimentation with Salination Review Test 1 Quiz

Lesson 2: Organic and Green Fertilizers

The Plant as a Factory Organic Fertilizers (Manures) Chemical Fertilizers Fertilizer Classification by Nutrient Content Fertilizer Analysis and Ratio Forms of Fertilizer Fertilizer Characteristics Task 1: Fertilizers Review Test 2 Quiz



Lesson 3: Nutrients

The 16 Essential Elements Task 1: Carbon Task 2: Oxygen Nutrients from the Air and Soil Water Primary Nutrients Secondary Nutrients Calcium (Ca) Magnesium Sulfur Review Test 3 Quiz

Lesson 4: Macronutrients (N-P-K)

The Three Macronutrients: N-P-K Nitrogen (N) Nitrogen Cycle in Nature Task 1: Study of Nitrogen Fixing Bacteria Task 2: The Role of Nitrogen Phosphorous (P) Potassium (K) Review Test 4 Quiz



Lesson 5: Commercial Fertilizers

What are Fertilizers? Sources of Fertilizers Finished Fertilizers Review of Analysis and Ratio Quiz Primary Nutrient Fertilizers Nitrogen Fertilizer Task 1: Nitrogen Phosphorous Fertilizers Potassium Fertilizers Granular and Blended Mixed Fertilizers Calculation of Fertilizer Requirement Exercise: Fertilizer Requirement Calculations Review Test 5 Quiz

Post-test: Soil in Agriculture