AGRICULTURE (40-50 LESSONS)

This course investigates the development of agricultural technology and its impact. Students explore the application of biotechnology in agriculture, and the use of control principles in agricultural systems. Students will also explore plant biology and investigate the importance of soil in agriculture.

Learning Objectives

- Explore careers in the agriculture sector
- Investigate the development of agricultural machinery and its impact
- Explore the application of biotechnology in producing sustainable energy resources
- Design automated agricultural machinery
- Explore the use of technology in the design and control of artificial environments
- Recognize the impact of human activity on ecosystems
- Carry out soil analysis and recognize the importance of natural resources for agriculture
- Explore the use of natural resources for production of materials and energy
- Explore fuel cell technology and its efficiency

Typical Careers

Agricultural Engineer, Food Science Technician, Farm Equipment Mechanic, Agriculture Technician

Lessons

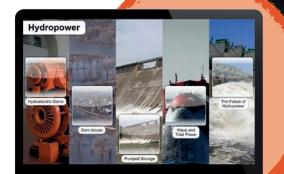
- Introduction Careers: Agricultural Technology
- Agricultural Technology
- Natural Resources
- Energy Resources

Equipment

- Engineering Construction Kit (220-01)
- Earth Science Apparatus Kit (513-01)
- Sustainable Energy Production Student Resource Pack (100-02)

Design Projects

- A Seed Dispenser with Solution
- Vertical Farming System



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