

AGRICULTURE

YEAR 10

Design Technology - Food, Fibre & Production

Soil-Free Solutions: Exploring Hydroponics in Modern Agriculture

In this unit, students will delve into hydroponics as an innovative method for growing plants without soil. They will explore the principles of hydroponic systems, including nutrient delivery, plant growth requirements, and system design. Students will engage in hands-on activities to build and manage their own hydroponic setups, analyse the benefits and challenges of hydroponic farming, and assess its impact on sustainable food production. The unit aims to enhance their understanding of modern agricultural techniques and their application in food technology.

Agribusiness Essentials: Managing and Innovating in the Agricultural Industry

In this unit, students will explore the dynamic world of agribusiness. They will examine the key components of the agricultural industry, including production, marketing, and supply chain management. Through case studies and project-based learning, students will analyse how businesses manage resources, develop strategies, and adapt to market demands. They will design and implement their own agribusinesses and gain insight into food production.