

A Level Design & Technology

Overview

Design and Technology aims to develop students into internationally-minded people who can create a better world. This program enables students to be innovative and creative and to develop their ability to design high quality products. Working with a mentor, students will foster an appreciation of the significance of design and technology on society. Furthermore, students will gain a better understanding of production processes and industrial practices. Students will implement parts of the design process with a mentor before conducting practical work at their school facilities. Students will be encouraged the use ICT to build their design and technological abilities, and develop critical evaluation skills which they can employ in a variety of technical, aesthetic, economic, environmental, social and cultural contexts.

Objectives

- Develop the ability to be innovative and creative in design and technology and to recognise constraints and produce high-quality products
- Develop an awareness of the significance of design and technology to society
- Develop the ability to apply essential knowledge, understanding and skills of design production processes to a range of technological activities and develop an understanding of industrial practices
- Develop the ability to use information and communications technology (ICT).

Structure

- Reflect on current knowledge of the range of subjects that Design and Technology teaches and identify strengths and weaknesses
 - Develop a personalised curriculum
- Investigating studies and areas of potential improvement in the world today
 - Real-world examples
 - Application of the design process
 - Critical thinking and problem-solving practice
- Develop data analysis skills
 - Question reliability and validity of data
 - Improve evaluative thinking
- Design a product
 - Thinking about the impact on society and sustainability
 - Implement design process and problem-solving skills
- Exam practice
 - Past papers
 - Planning and structuring responses