

# TECHNOLOGY OPTIONS





## TEXTILES TECHNOLOGY

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Students build on their knowledge, skills and experiences from technology classes taken during primary or intermediate school.

The course enables students to develop the knowledge, understanding and skills to be creative, explore functional and aesthetic aspects of textiles and produce textile items.

They will explore the properties and performance of a range of textile items to enable them to justify the selection of textiles materials or specific end uses. They will also design, produce and evaluate a number of textile projects.

Textiles may be studied from Year 9 to 13 (NCEA Level 3).

## FOOD TECHNOLOGY

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This course develops students' knowledge, skills and understanding of the importance of food in ensuring the well-being of people. Students develop food skills and an understanding of food properties, processing, preparation, nutrition and consumption. They learn to evaluate food choices in a range of contexts and to consider technological, cultural, economic, social and environmental factors.

Students will also develop skills in the selection, preparation, preservation and presentation of food that is nutritionally-balanced, culturally and socially significant and safe to consume.

Food Technology splits at Year 11 into Home Economics and Hospitality. Both subjects may be studied to Year 13 (NCEA Level 3).

## DESIGN & VISUAL COMMUNICATION (DVC)

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DVC is a new subject to many Year 9 and 10 students. Design & visual communication best described as a mixture of art and technical drawing.

It aims to develop an understanding of the significance of graphical communication as a universal language and the techniques and technologies used to convey technical and non-technical ideas and information. Graphics technology develops the ability to read, interpret and produce graphical presentations that communicate information using a variety of techniques and media.

The major emphasis is on students actively planning, developing and producing quality graphical presentations. They will learn to design, prepare and present using both manual and computer-based drafting technologies. The content of the core includes graphics principles and techniques, design, planning and construction and presentation.

Students may also wish to complement DVC by also studying materials technology or textiles technology and progressing their skills in the senior college and then on to tertiary study.

DVC may be studied from Year 9 to 13 (NCEA Level 3).

## MATERIALS TECHNOLOGY

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The course in Years 9 and 10 enables students to develop a way of thinking and doing to create quality solutions to everyday problems, opportunities and needs. Students work through a design process to develop and realise ideas, manage resources and processes, and evaluate technology and design including social and environmental consequences.

During the course, students undertake 2-3 design projects. Design-related content is the basis of a student's progression of learning through the course and is incorporated into each design project. Students can select materials technology, design technology or structures technology; each is underpinned by the same core values and each focuses on different outcomes.

It is recommended that students select more than one area of technology to get a broad understanding of the subject allowing them to explore this subject further in Years 11-13.

Materials Technology splits in Year 11 into Technology and Building. Both may be studied to Year 13 (NCEA Level 3).