

TECHNOLOGIES ELECTIVES

YEAR 9

Digital Technologies - DigiTech

This unit introduces students to key layers of webpage development that represent content, structure and presentation. Students develop simple webpages employing hypertext markup language (HTML) for the structure of webpage content, as well as Cascading Style Sheets (CSS) for styling. They explore aesthetics in modern webpage design, and accessibility for diverse audiences. Optionally, students learn how to integrate JavaScript programming for more advanced webpage behaviour.

Design Technology - Materials

Hands-On Craftsmanship: Designing and Building a Fishing Rod Holder

In this unit, students will develop hands-on skills by designing and constructing a fishing rod holder using various workshop tools and machines. They will start with mandatory Ongoing safety training to ensure a thorough understanding of safe workshop practices. Students will then engage in all stages of the project, including planning, material selection, and construction. Emphasis will be placed on precision, tool usage, and adherence to safety protocols. By the end of the unit, students will have a functional fishing rod holder and enhanced technical skills in workshop practices.

Elegant Craftsmanship: Designing and Building a Hall Table

In this unit, students will engage in a comprehensive project to design and construct a stylish hall table using a variety of workshop tools and machines. Students will then proceed through the stages of the project, including design planning, material selection, and the construction process. They will learn to apply woodworking techniques and tool operations to create a functional and aesthetically pleasing hall table. Emphasis will be placed on the design process. By the end of the unit, students will have a completed hall table and gained valuable experience in using workshop tools, project management, and quality craftsmanship.

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Design Technology - Graphics

From Concept to Creation: Exploring 3D Printing and Design in Engineering

In this unit, students will delve into the world of 3D printing and design as they explore engineering principles and systems. Students will learn about the process of designing and prototyping 3D printed objects while focusing on creating a unique souvenir for their school's Showcase.

Crafting with Precision: Designing and Laser Cutting Personalised Gifts

In this unit, students will explore laser cutting to create personalised gifts. They will learn to design and model custom items using CAD software, understand material properties, and operate laser cutting machines. The unit emphasises creativity, technical skills, and personal expression, culminating in a unique, handcrafted gift project.

Design Technology - Engineering

Basic products and procedures used for working in metal fabrication

Students will learn to use basic hand and power tools for sheet metal marking, cutting, folding and joining. They will combine these skills to produce a lidded toolbox. Students will learn to use basic hand and power tools for solid steel marking, cutting and shaping. They will combine these skills to produce a steel battery terminal puller.

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Design Technology - Food

Mood and Food

As a student specialising in Food this term, your task involves delving into the realm of affordable superfoods known for enhancing brain function and overall health. In a group, your mission is to create a recipe utilising one or more of these researched superfoods, which you'll then present to your designated client along with a visually engaging poster or flyer. Keep in mind that your audience for this assignment is a Year 9 student. It's essential to reach out via email, confirming their availability for your meal on the scheduled day.

Pimp My Biscuit

This term you will learn about what it means to be a real-life Food Technologist! When people are creating food items, they need to understand flavour pairing and delicious combinations.

Your design challenge is to create a hypothetical brand that sells 'pimped up' Anzac Biscuits. The aim is to take the Aussie favourite and amplify it! You will trial different flavour combinations and justify your favourite.

Design Technology - Food, Fibre & Production

Sustainable Market Gardening: Designing and Implementing Efficient Garden Systems

In this unit on market gardening, Year 9 students will design and implement a market garden. Working in small groups, students will complete a mini design project involving two key components: creating a trellis from recycled materials and selecting a commercial trellis from Bunnings. The unit will focus on practical design skills, sustainable practices, and evaluating the effectiveness of different materials and systems in enhancing plant growth. Students will present their designs and reflect on their choices to demonstrate their understanding of efficient gardening techniques.