

Year 8 - Technology Mandatory 2022

*Please note : The timing of each topic will depend upon the availability of rooms and resources.
Therefore classes will begin each topic at different times of the year as determined by the timetable.*

TERM X		
	Back to Bed : Students develop knowledge and skills in the use of textiles and sewing machines by designing and making a pair of pyjamas.	
	UNIT OVERVIEW	ASSESSMENT
TIMING Weeks:12	<p>A student:</p> <ul style="list-style-type: none"> • TE4-1DP - designs, communicates and evaluates innovative ideas and creative solutions to authentic problems or opportunities • TE4-2DP - plans and manages the production of designed solutions • TE4-3DP - selects and safely applies a broad range of tools, materials and processes in the production of quality projects • TE4-9MA - investigates how the characteristics and properties of tools, materials and processes affect their use in designed solutions • TE4-10TS - explains how people in technology related professions contribute to society now and into the future 	<p>Task Number: X</p> <p>Nature of Task:</p> <p>Documentation of the design process and presented in a design folio.</p> <p>Plan and produce a textile item</p> <p>Percentage: 33</p> <p>Week: 12</p> <p>Reported: Semester 1 or Semester 2</p>

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TERM X

Fantastic Food : In this unit, students will be introduced to the basic food preparation skills needed to participate in the Food Technology classroom. Through a range of design, experimentation and testing procedures students are set the challenge of developing a communication tool that will help adolescents understand how to maintain good health. Throughout the design, development and practical creation of the project, student teams expand their knowledge of food, agriculture and technology as they collaboratively improve and apply their content knowledge to practical problem-solving situations. Students will complete an in-depth study of chickens and eggs, exploring the school agricultural farm, participating in practicals using these two ingredients.

UNIT OVERVIEW

A student:

- **TE4-1DP** - designs, communicates and evaluates innovative ideas and creative solutions to authentic problems or opportunities
- **TE4-2DP** - plans and manages the production of designed solutions
- **TE4-3DP** - selects and safely applies a broad range of tools, materials and processes in the production of quality projects
- **TE4-5AG** - investigates how food and fibre are produced in managed environments
- **TE4-6FO** - explains how the characteristics and properties of food determine preparation techniques for healthy eating
- **TE4-10TS** - explains how people in technology related professions contribute to society now and into the future

ASSESSMENT

Task Number: X

Nature of Task:
Documentation of the design process and presented in a design folio.

Plan and produce a food item as a meal

Percentage: 33

Week: 12

Reported: Semester 1 or Semester 2

TIMING
Weeks:
12

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TERM X

Character Design : In this unit, students focus on the creation of character design with emphasis on considering and applying scale, prototype modelling, drawing, CAD and 3D printing. The project provides students with opportunities to experiment and develop a miniature house or enclosure for a small-scale 3D printed character model. Within the project, students will also learn to incorporate, a type of motion with the focus of engineering. Students will explore what fields 3D printing is used in and scale in relation to their chosen character. Students will also further develop ethical understanding through the exploration of work and enterprise developments in both theory and practical lessons.

UNIT OVERVIEW

ASSESSMENT

A student:

- **TE4-1DP** - designs, communicates and evaluates innovative ideas and creative solutions to authentic problems or opportunities (engineered/material)
- **TE4-2DP** - plans and manages the production of designed solutions (engineered)
- **TE4-3DP** - selects and safely applies a broad range of tools, materials and processes in the production of quality projects (engineered/material)
- **TE4-9MA** - investigates how the characteristics and properties of tools, materials and processes affect their use in designed solutions (engineered/material)
- **TE4-8EN** - explains how force, motion and energy are used in engineered systems (engineered)
- **TE4-10TS** - explains how people in technology-related professions contribute to society now and into the future (digital/engineered)
- **TE4-4DP** - designs algorithms for digital solutions and implements them in a general-purpose programming language (digital)

Task Number: X

Nature of Task:

Digital portfolio
Products (3D model
and house
incorporating a
motion)

Still image
incorporating digital
coding

Percentage: 33

Week: 12

Reported: Semester
1 or 2

TIMING
Weeks: 12