STEAM

Year 7

IT: Digital Communication

SUBJECT DESCRIPTION

This Information Technology course aims to develop general computing knowledge as well as encourage the development of problem solving skills to deal with common computer related issues. Students will use Office 365 programs such as Microsoft Word, Excel and PowerPoint to work individually and collaboratively on various tasks. Students will also learn how to safely and responsibly use online spaces.

Assessment will be based on:

- Accuracy of information used in tasks.
- Planning tools used in the creation of tasks.
- Correct and appropriate use of program functions and tools.
- The efficient use of time in completing tasks.

Students will achieve these outcomes through:

- Investigation of tools used in various programs.
- Design of projects using planning tools to achieve final product.
- Production using instruction/processes to achieve a set outcome.
- Evaluation of project to determine all set requirements are met.

Mechanisms/Systems

SUBJECT DESCRIPTION

The course in Mechanisms introduces students to a basic understanding in engineering and mechanics. Students gain an understanding in engineering structures and mechanical components.

In this introductory course students build basic mechanisms and structures using Lego and projects involving a range of materials from which models will be made.

Students develop an understanding of a design brief and will use investigation, design, construction, and evaluation skills developing a range of solutions to set problems. These components will include levers, pulleys, gears and engineering structures.

Assessment will be based on:

- practical results
- written evaluations on design and construction problems and solutions

Students will achieve these outcomes through:

- investigation into structures and mechanical components
- design of various structures
- production of models and structures form the design briefs
- evaluation of solutions to the design briefs