

Year 9/10 Makerspace Projects

Semester 2 2021 Course Outline

Makerspace Projects explores new and evolving technology and the role it plays in our lives and newly formed communities. Students will explore electronics and how to integrate them into products using a range of technologies including laser cutting, 3D design, and micro-processors/coding. The student will compare how members of the Maker community communicate and share projects and information with each other. They will then work towards producing their own projects and sharing it with the world via these channels.

Learning Outcomes

Students will be assessed on the following Learning Outcomes:

- Y9/10.987 Technologies - Identifies the changes necessary to designed solutions to realise the preferred futures described
- Y9/10.988 Technologies - Evaluates the features of technologies and their appropriateness for the purpose for one or more of the technologies contexts, when producing designed solutions for identified needs or opportunities
- Y9/10.989 Technologies - Creates designed solutions for one or more of the technologies contexts based on a critical evaluation of needs or opportunities
- Y9/10.991 Technologies - Creates and connects design ideas and processes of increasing complexity and justifies decisions
- Y9/10.1024 Technologies - Designs and evaluates user experiences and algorithms
- Y9/10.1027 Technologies - Tests and predicts results and implements digital solutions
- Y9/10.1029 Technologies - Shares and collaborates online, establishing protocols for the use, transmission and maintenance of data and projects
- Y9.413 Science - Describes models of energy transfer and applies these to explain phenomena

Assessment Tasks

Students will be assessed on their participation and completion of classwork and assessment tasks.

Task	Week Due*
Electronics modification and circuit diagrams	Term 1, Week 3 - 5
Design process documentation	Term 1, Week 8
Maker communication analysis	Term 2, Week 2
Project logbook and communication presentation	Term 2, Week 8

*Due dates are an estimate only

Teachers: James Hall

Executive Teacher: Jo Power and Clare Incher