

TECHNOLOGIES: DESIGN - MANUAL ARTS, HOME ECONOMICS AND ROBOTICS

ELECTIVE SUBJECT: Across four semesters

WHY STUDY DESIGN?

Technologies enrich and impact on the lives of people and societies globally. Technologies, in their development and use, are influenced by – and can play an important role in transforming, restoring and sustaining – our societies and our natural, managed, constructed and digital environments. The Technologies learning area draws together the distinct but related subjects of Design and Technologies and Digital Technologies. The Australian Curriculum: Technologies will ensure that all students benefit from learning about and working with traditional, contemporary and emerging technologies that shape the world in which we live.



COURSE AIMS:

Technologies aims to develop the knowledge, understanding and skills to ensure that, individual and collaboratively, students:



- are creative, innovative and enterprising when using traditional, contemporary and emerging technologies, and understand how technologies have developed over time
- effectively and responsibly select and manipulate appropriate technologies, resources, materials, data, systems, tools, and equipment when designing and creating products, services, environments and digital solutions
- critique and evaluate technologies processes to identify and create solutions to a range of problems or opportunities
- investigate, design, plan, manage, create, produce and evaluate technologies solutions
- engage confidently with technologies and make informed, ethical and sustainable decisions about technologies for preferred futures including personal health and wellbeing, recreation, everyday life, the world of work and enterprise, and the environment.

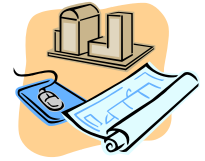
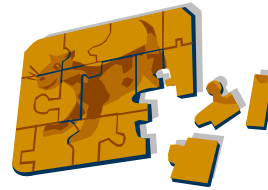
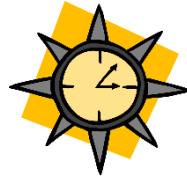
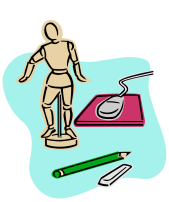
COURSE ORGANIZATION:

The study of Technology in Years 7 and 8 can be studied in either Design Home Economics, Manual Arts and Robotics OR Digital Technology Computers. You can only choose one unit per year and you **cannot** choose the same unit twice.

Year 7 and 8 Units

Semester 1 or 2 Design Manual Arts

Through the use of books, videos and the web the students will look at the different stages of design. They will be taught about workshop graphics and how to sketch to proportion. They will then design and produce two different small projects using a variety of different materials. The first project will be designed as a present for someone and the second project will be for personal use.



Assessment

Assessment will be in the form of a design challenge whereby students will design and construct a celebratory personalised timber card as well as an own design project.

Semester 1 or 2 Design Home Economics Introductory Unit (Cooking & Sewing)

Through the use of videos, books, guided instruction and problem solving students will learn the design process in Home Economics. Students will then use their knowledge of the process to solve some food and textiles challenges. Students will learn food preparation and sewing skills and use these to produce a variety of food & textile products.



Assessment

Assessment will be in the form of a sewing design challenge whereby students will design and construct a personalised pair of shorts, pencil case, tie dye cushion OR drawstring bag for year 8s. A process journal will form part of this assessment. Students will also do a theory exam on kitchen equipment, safety and cookery terms. A practical cooking exam will also form part of the assessment.