## DESIGN AND TECHNOLOGY

Design & Technology develops qualities which are highly valued by today's tertiary institutions and employers. The course emphasises problem solving, communication and collaboration in students through developing individual solutions to challenges.

Design & Technology is very student centred and gives students the opportunity to research, investigate and develop projects in their own way. Students complete a number of projects to build skills and knowledge, which will be used in Year 12. This includes investigating design theory and the work of successful contemporary designers and applying findings to their own project development. In Year 11 the emphasis is on professional presentation and preparation for the Year 12 Major Project in which students can pursue their own area of interest.

### Course content includes:

*Design theory and practice:* The principles of effective design; how a professional designer works through a project; how to use creative thinking techniques to improve your designs and designing skills; how to develop creative and innovative ideas.

*Design and Construction skills:* You can learn to use the tools: and techniques needed to produce professional results in a variety of materials to including: wood, metal, plastics, textiles, modelling materials and graphic media.. Major projects can be entirely digital-ranging from programming based projects to digital video and multimedia.

*Project management:* Learning to manage the resources needed to develop a long-term project such as time, money and materials.

### So why would I do Design and Technology?

By the time you present for the HSC examination you will already have gained 60% of your marks from your major project. The folio you produce can be invaluable to help enter into tertiary design courses.

Your Major Design Project and folio are externally marked.

Design and Technology gives you the opportunity to work independently for a whole year on a project (product, system or environment) that excites you.

### Where can Design & Technology take me?

Former Manly Design & Technology students are now working in fashion design, graphic design, industrial/product design, architecture, software design and engineering and have been awarded at Tertiary level, including a University medal from NSW University and an award for design in Sustainable Development from the Faculty for the Built Environment at UNSW.

### Typical Projects

This is a small sample of the type of projects that students have made previously. (This is why we can say almost anything):

Educational software, sound studio design, mud brick home design, electric guitar, indoor and outdoor furniture, shop fit-out design, jewellery, fan technology costume, surfboard, wheelchair exerciser, underground house design and model, telescope, wedding gown, conga drums, website, model aircraft.