

Design Technology Curriculum content covered in Year 7:

Students complete a term in our specialist workshops supported by experienced staff and technician. This project begins with studying the characteristics of different materials, their sustainability issues and common uses. Students select from and use specialist tools, techniques, processes, equipment and machinery precisely to produce a final three dimensional product.

Design Technology Curriculum content covered in Year 8:

Students use research and exploration, such as the study of different cultures, to identify and understand user needs. Students go on to develop their drawing skills, present their ideas and make their product using a variety of materials. A wide range of manufacturing skills are developed through using various tools and pieces of equipment including the laser cutter to produce a final three dimensional product.

Design Technology Curriculum content covered in Year 9:

The project largely focuses on research, creativity, prototyping/ manufacture and evaluating. It is an exciting brief that inspires the students and extends their technical knowledge of materials whilst developing their practical skills in a workshop. Computer aided design (CAD – 2D design) and manufacture (CAM – laser cutter) are explored and used to give a professional finish to their final three dimensional product. Students develop and communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling, oral and digital presentations.