

Head of Department: Ms. N Mayers

Design and Technology provides opportunities for students to develop their capability, combining designing and manufacturing skills with the knowledge and understanding to problem-solve and create quality products.

KS3

At KS3 students are encouraged to engage in an iterative process to be innovative thinkers and to design and make various products, using a range of different materials within the departments of Product Design, Textiles and Food Preparation and Nutrition.

Year 7, 8 and 9 students will have the opportunity to experience all of these areas, and are taught by specialist teaching staff in well-equipped, dedicated workshops. Students are encouraged to express their creativity through a series of structured tasks and projects that leave scope for an increasingly high level of individuality. A strong emphasis is placed on producing products of high quality design and manufacture at all levels. Students are encouraged to observe and analyse examples of good design in their everyday life and to appreciate the life enhancing qualities of good design.

KS4

At GCSE, we follow the AQA Design and Technology (Resistant Materials) specification. This course combines theory with practice, and students develop both the technical and theoretical knowledge behind design and manufacture, as well as experience in designing and manufacturing their own projects. The course links closely with students' study of Mathematics and Physics, as they learn about the scientific foundations for projects, such as different mechanical devices, processes and circuits. Students are exposed to the world of new and emerging technology, technological and material developments, and the impact that these developments are having on modern society, enterprise, and industry. They will also explore energy sources and sustainable materials, highly topical in a world now concerned with increasing environmental pressure.