

Design Technology

Intent

It is our intention that students will leave their Design Technology education understanding the unique qualities of different materials and processes and be able to exploit these within practical work.

Students will learn to engage, be inspired and challenged, equipping them with the knowledge and skills to experiment, invent and create their own design ideas and use workshop time to make these become a reality.

They will learn how to create successful design ideas and models to present their solutions and establish the skills required to manufacture these to a high quality. Theoretical work will be delivered to support their learning. Weighting at both Key Stage 4 and 5 are 50% coursework and 50% examination.

Implementation

The curriculum is organised into project based work and theoretical content. Key Stage 3 projects are designed to build on the skills required to be successful in both a design and manufacture setting. Key Stage 4 and 5 focus on skills based project and theory work to support the knowledge base needed for the examination at the end of the course. CAD/CAM work is a taught element and students are encouraged to use these facilities within their work.

Impact

Students will leave HGSC with enhanced fine motor skills, hand-eye coordination, problem solving skills, lateral thinking, complex analysis and critical thinking skills. These qualities will enable them to pursue careers in any of the design and technology areas of work, such as engineering, creative design, illustration, architecture and many more.