

Design & Technology

KS3 Curriculum

What does this course involve at Key Stage 3?

Design and Technology is about all that surrounds us. It is a subject which encourages you to design and make products with creativity and originality using a range of materials such as paper/card, plastics, textiles, ceramics, food, electronics, timber-based materials and ferrous and non-ferrous metals. Students will develop a variety of techniques for working with these materials. The course has a practical approach that encourages students to design and make products with creativity and originality in a variety of practical activities. The study of packaging, branding and marketing tools are included in the course as part of the process of understanding commercially viable products.

We aim in Design and Technology to develop students' independence and opportunities for learning through their engagement, thinking, reflectiveness and Interdependence.

What do you need to be successful in this course?

To be successful in this course students' will be shown how to undertake different drawing and modelling techniques to design products. Channelling and developing their own creativity and problem solving skills will result in finished pieces of practical work being completed. Student will be responsible for ensuring they follow the safety procedures correctly whilst they are in the workshops.

Year 7	Students will be working on projects to introduce them into the world of design which will centre around Computer Aided Design (CAD). Students will work creatively to design and model using computer programmes to find solutions to real word problems and try to develop a more sustainable world.
Year 8	Students will be developing their creativity and designing skills that were introduced in year 7 to find solutions to real world problems using electronics, CAD, materials and creativity to realise these in the form of prototypes building on their knowledge of sustainability.

Key Stage 4 Curriculum

Years 9, 10 & 11	<p>Qualification name: AQA GCSE (9-1) in Design and Technology</p> <p>Design and Technology is a qualification that is engaging and inspiring, and that reflects the demands of a truly modern and evolving society – a qualification that enables your students to apply themselves and develop the practical skills needed to succeed in their chosen pathway.</p> <p>This course has clear paths through the specification developed to provide clear routes for specialism in the material areas you enjoy. The course is not all practical and the exam papers the students must sit will assess the breadth of design and technology knowledge in the Core section, and assess the depth of knowledge in the chosen material category for the Specialist section to enable students to demonstrate fully their own particular strengths or specialism. Creative design and making are still at the heart of the qualification and will give students the freedom to take design risks and to innovate in a situation where it is safe to test and refine ideas.</p> <p>Working in an iterative design style, students will complete 2 units for this course:</p> <p>Unit 1 – Non-Exam Assessment (50% of final grade) Unit 2 – 2 hour written exam (50% of final grade)</p> <p>Year 9 Students will be developing the design concepts learnt in years 7 and 8 to problem solve design contextual challenges and develop a deeper understanding of materials and industrial processes. Students will also be developing their theoretical knowledge of design and technology through flip learning and practice questions.</p> <p>Year 10 Students will build on what they have learnt in year 9 to complete practice Non-Exam Assessment projects using a contextual challenge to design in an iterative way. Students will also be further developing their theoretical knowledge of design and technology through flip learning and practice questions.</p> <p>Year 11 Students will work to complete their Non-Exam Assessment (NEA) worth 50% of their GCSE marks. They will also then focus on revising for the Unit 2 written exam which will be sat in the June exams.</p>
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