



DESIGN AND TECHNOLOGY GCSE 3D DESIGN Course Overview for Years 10 - 11

Year	TERM 1	TERM 2	TERM 3	Home learning
10	<p>Students undertake the first of 2 units to develop skills in designing and realisation. Each of the units are designed to deliver skills in product design and design for the built environment. These skills will include drawing strategies for communicating ideas. Students will also undertake modelling and learn to manipulate a wide variety of materials through use of hand tools, machinery and CAD CAM. The first of these units delivered this term will focus on product design and students will be introduced to the importance of developing knowledge of source materials, where they will study art deco and its influences. They will complete an individual response to the brief of designing and realising a working clock in art deco style.</p>	<p>Students undertake the second unit, which focuses on developing skills in designing for the built environment. Students are introduced to the ideas of the deconstructivists and study the work of Frank Gehry and his contemporaries. Students will design and develop a concept idea for a temporary structure, such as a home office, a camping pod, or a festival food truck. They will develop skills in using CAD to develop a complementary logo for their design and so learn to blend 2 and 3D design concepts together.</p>	<p>Students begin work on their main project. This is a self-initiated study following a brief that students devise. They are encouraged to work in one of two areas: the built environment or product design. Once they have their brief, they undertake explorations into potential source materials (inspiration) and to help them with this, they visit a museum to gather source materials first-hand. As summer approaches, the students would be designing and developing their idea; creating sketches in isometric or perspective and using their source material to guide their creative process.</p>	<p>Students use home learning to continue to add to and practice on their on-going coursework pieces throughout year 10 and 11. Students are advised to see as much design and architecture as they can, by visiting sites of interest or galleries. Throughout the year we will point students to places and exhibitions of interest that might enhance their project work.</p> <p>At the end of year 10, and/or beginning of year 11 the department takes the students on a trip to experience the work of designers, which allows the students a first-hand experience of absorbing and working from source materials</p>

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11	Continuation of coursework unit. As part of their main field of study within the coursework unit, students begin to realise their main piece. This term, students are mostly focussed on practical work. They will be exploring making skills including some CAD CAM. Students working in resistant materials will be using workshop tools and machinery.	Students begin preparation for their second component, the practical exam. In this term, from the exam board, the students will receive a list of themes to choose from as a starting point. They will then have a limited amount of time to devise a brief from the theme as a starting point. They have the term to complete their exam preparation	Students will sit their practical exam shortly after the Easter holidays. This exam is a 10-hour practical where they work on their outcome planned within their prep that had been completed over the previous term. The 10 hours is spread out over 2 school days and allows the student to showcase their practical skills and creativity developed over the two-year course.	A continuation from year 10

See the link below for further information

<https://www.aqa.org.uk/subjects/art-and-design/gcse/art-and-design-8201-8206/subject-content/three-dimensional-design>