



DESIGN AND TECHNOLOGY – 3D DESIGN

Course Overview for Years 12 - 13

Year	TERM 1	TERM 2	TERM 3	Home learning
12	<p>Students undertake three mini 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. They will work from source materials and to gain greater proficiency in understanding source materials and how to develop ideas from them, students will be introduced to post modernism, modernism and will look in depth at the work and inspiration of Gaudi. They will also study Noguchi to learn about the importance of natural materials, spatial perception and gain a greater appreciation of manufacturing techniques.</p>	<p>Coursework component 1 begins. 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 a number of explorations around the focus of the brief. For this term the main focus is developing the brief and extracting information to aid the design process. This might include doing a site analysis for an architectural project or analysing other products or materials if doing product design.</p>	<p>Students continue with the coursework component and building explorations within their study. This term the students would mostly be exploring the overall design of their realisation alongside any of its significant features</p>	<p>Students use home learning to continue to add to and practice on their on-going coursework pieces throughout year 12 and 13. 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 12, the department takes the students on a trip to the V and A, which allows the students a first-hand experience of absorbing and working from source materials</p> <p>To help students with their independent study work or get inspiration from sources, students can use the</p>

<p>13</p>	<p>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 and any further explorations that might enhance their final realisation.</p>	<p>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</p>	<p>Students will sit their practical exam shortly after the Easter holidays. This exam is a 15-hour practical where they work on their outcome planned within their prep that had been completed over the previous term. The 15 hours is spread out over 3 school days and allows the student to showcase their practical skills and creativity developed over the two-year course.</p>	<p>departments source booklet, which can be found on this website.</p>
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