



Create your future

Design and Technology: Product Design (3-D Design)			
Title of Course	Design and Technology: Product Design (3-D Design)		
Level	A Level	Examination Board	AQA
What the subject is about	What makes a product effective and useful as opposed to a product which is ineffective? What is good design versus bad? This subject is the study of how to design products that are functional, taking into account a range of factors such as materials, manufacturing processes and the people who will eventually use your products.		
What you will learn	<p>The course covers a broad range of the field of product design:</p> <ul style="list-style-type: none"> • Unit 1: Materials, Components and Application <ul style="list-style-type: none"> • Section A: Materials and Components • Section B: Design and Market Influences • Section C: Processes and Manufacture • Unit 2: Learning Through Designing and Making • Unit 3: Design and Manufacture • Unit 4: Design and Making Practice. <p>Each unit uses real-life contexts with which you will develop your understanding and knowledge of key design principles, as well as develop your creativity, problem-solving and presentation skills. The units also support the development of manufacturing and making skills.</p>		
How you will learn	Through a range of case studies and design and making projects, including individual and collaborative learning, there will be a range of design projects for you to engage with in order to enhance understanding of the design process, allowing you to develop your product from concept to final model.		
Independent learning	Individual project learning allows you to develop as a designer and the course is structured around fostering these skills. You will be required to review the learning during the lessons and apply these to a portfolio of study for your design project and extend these skills further. In addition, there will be an opportunity for you to complete an Extended Project Qualification (EPQ).		
Coursework and Examination Information	<p>There will be two written exams at the end of the course and two pieces of coursework:</p> <ul style="list-style-type: none"> • <i>Paper 1 – Materials, Components and Application (25% of final mark, 2 hours):</i> this will assess Sections A, B and C • <i>Coursework 1 – Learning through Designing and Making (25% of final mark, approx. 50 hours):</i> this coursework will take the form of a simple design-and-make project, two smaller projects or a portfolio of work • <i>Paper 2 – Design and Manufacture (25% of final mark, 2 hours)</i> • <i>Coursework 2 – Design and Making Practice (25% of final mark, approx. 60 hours):</i> this coursework will take the form of a substantial designing and making activity. <p>The coursework consists of an ongoing design project for each of the two years of the course respectively. These design projects require you to apply the learning from lessons and will be assessed at the end of the first and second year as a final submission alongside teacher assessment, of drawing/sketching and presentation skills throughout the year. As you develop your product during workshop sessions you will be required to record this within an individual portfolio which will take the form of the coursework submission.</p>		
Your future career	Product design helps you to build up research, problem solving, manufacturing and presentational skills in a creative context. Product design is a key subject for lots of careers which bridges the gap between art and the many fields of engineering, including: automotive, mechanical, civil and industrial. This also includes the many disciplines within the design industry such as furniture, product and transportation design.		
Staff Contact	Mr Wajid Riaz Leader of Design & Engineering Wajid.Riaz@uaesouthbank.org.uk 020 7277 3000	Entry requirements	5A* - C grades including Grade 5 in Maths