

EPCHS Technology Department: Year 10 Programme of Study

Eduqas 3D Design

Year/Term	Unit of work	Intent	Skills
Overall		<p>Students will build on their year 9 understanding of the 4 core concepts underpinning the design process, Design, Make, Evaluate and Technical Knowledge. Three-dimensional design is defined as the design, prototyping, modelling, or making of primarily functional and aesthetic consumer products, objects, and environments. Students will explore practical and relevant critical and contextual sources such as the work of historical and contemporary three-dimensional designers and makers, as well as the different purposes, intentions, and functions of three-dimensional design as appropriate to their own work. Areas of study include architectural design, product design, environmental landscape design, sculpture, and ceramics.</p>	
Autumn Term 1	Introduction to 3D Product Design (A01/A02)	<p>Introduction to 3D Product Design</p> <ul style="list-style-type: none"> • Design Drawing skills and core principles of visual communication in design. • Design presentation, layouts, and composition. • Mass or batch production • Individualised problem solving 	<p>Listening Designing Problem solving</p>
Autumn Term 2	Coursework – personal investigation (A01/A02/A03)	<p>Coursework (personal investigation): Initial Ideas and research.</p> <ul style="list-style-type: none"> • Research methods and presentation • Researching architectural buildings/sculptures • Application of 2D media • Work creatively with processes, techniques, and materials • Planning an enquiry • Designer analysis • Visual and technical investigation – colour theory • Assessing the work of two artists – Anna Coshkevna and Tess Wakeln 	<p>Research Presentation Showing creativity Designing Making</p>
Assessments	<p>Paper sculptures 3D dimensional drawing skills Use of subject specific language</p>		
Spring Term 1	Coursework – Responding to initial inspirations (A01/A02/A03)	<p>Coursework: Responding to initial inspirations</p> <ul style="list-style-type: none"> • Identification of product focus, modes of product research, key words, and critical analysis techniques. • Modelling and prototyping theory and techniques. • Work creatively with processes, techniques, and materials. 	<p>Showing creativity Modelling Listening Research Analytical skills</p>

		<ul style="list-style-type: none"> • Relationship between form and function. • 3D drawing of geometric shapes – hexagons, pentagons – drawing to 1-to-2-point perspective. • Research into architecture • Insightful comments about work 	
Spring Term 2	Coursework: Experimenting, developments and reflection (A02/A03)	Coursework: Experimenting, developments and reflection <ul style="list-style-type: none"> • Focused research leading to development of design ideas. • Experimentation with materials and processes • Health and safety and the use of PPE • Practical skills development. • Working with woods, metals, plastics, and clays. • Cutting, shaping, forming, and finishing 	<ul style="list-style-type: none"> • Environmental awareness • Reading • Listening • Making • Safety in practical room • Measuring • Accuracy in cutting out. • Following instructions • Shaping • Cutting
Assessments	2D design and 3D forms Critical analysis and communication of design developments.		
Summer Term 1	Coursework: presenting and refinement of ideas in context to others work, a given specification and theme. (A01/A02/A03)	Development of final piece for coursework <ul style="list-style-type: none"> • How to record ideas: first-hand observations, insights, and judgements by any suitable means, such as sketches, diagrams, technical drawings, and written notes that are relevant to target audiences. • Modelling, testing, and modification. • Testing against the individual need of a person 	<ul style="list-style-type: none"> • Reading • Listening • Making • Safety in practical room • Measuring • Accuracy in cutting out. • Following instructions • Shaping • Modelling • Testing
Summer Term 2	Coursework: recording ideas, refinement, evaluating and reflection. (A04)	Consideration of final piece <ul style="list-style-type: none"> • Consider different presentational formats and select the most appropriate for submission. • Engagement to the target audience. • Testing, evaluation, and client feedback • Comparison to the specification – does the design match the specification? • Evaluation 	<ul style="list-style-type: none"> • Analysing • Testing • Evaluation
Assessments	Evaluation of the design Reflection on their design and the technical refinement		