

STMCA - GCSE 3D Design Curriculum Overview

Year 11 OCR GCSE 3D Design

	HT1 Autumn	HT2 Autumn	HT3 Spring	HT4 Spring	HT5 Summer	HT6 Summer
BIG Q	How can I manufacture, record and improve my Component 1 final outcome?	How can I complete and present a portfolio that demonstrates all four assessment objectives?	How can I analyse the externally set assignment and establish an independent design direction?	How can I use modelling, CAD and testing to refine a personal examination response?	How can I plan and realise a successful 3D outcome during the practical examination?	How can I complete and present all coursework and examination evidence to the highest standard?
Content (max 5)	1. Continue manufacturing the Component 1 final piece. 2. Record progress through a production diary and mid-project evaluation. 3. Apply quality control throughout making. 4. Refine and improve the outcome. 5. Evaluate the final piece against the specification and user needs.	1. Gather target-user feedback and complete the final evaluation. 2. Complete missing models and portfolio evidence. 3. Present CAD work with clear annotation. 4. Photograph and present the final outcome. 5. Complete Component 1 moderation checks.	1. Analyse the OCR externally set assignment and select a starting point. 2. Create a mind map and define a personal design direction. 3. Produce research, drawings and contextual investigations. 4. Investigate relevant designers and visual sources. 5. Establish an independent line of enquiry.	1. Generate and communicate design ideas. 2. Develop models and practical experiments. 3. Use CAD, drawing and photography to record development. 4. Test and evaluate ideas against the emerging intention. 5. Refine the preferred concept through iteration.	1. Resolve the final design and complete manufacturing planning. 2. Finish development and preparation work. 3. Produce the final outcome under examination conditions. 4. Demonstrate independent problem-solving and safe practice. 5. Record and evaluate the realised response.	1. Complete and submit Component 1 and Component 2 portfolios. 2. Check evidence and presentation across AO1–AO4. 3. Photograph final outcomes and organise supporting work. 4. Respond to final moderation checks where appropriate. 5. Review progression routes in design and manufacturing.
Vocabulary (max 10)	Production Diary Manufacture Refinement, Specification Evaluation Quality Control Accuracy, User Needs Testing Outcome	Portfolio CAD Annotation Presentation Photography Moderation Realisation Completion Evidence Technical Skill	ESA Starting Point Investigation Research Contextual Sources Design Direction Theme Inspiration Line of Enquiry Intent	Development Modelling Prototype CAD Experimentation Testing Iteration Refinement Evaluation Concept	Examination Final Outcome Realisation Independence Manufacture Time Management Planning Problem-solving Safety Evaluation	Submission Portfolio Assessment Objectives Presentation Moderation Completion Progression, Industry Higher Education Review
Catholic Link	Dignity of Work	Dignity of Work	Human Creativity and Dignity	Human Creativity and Dignity	Excellence and Perseverance	Excellence and Perseverance
Careers Link	Product Designer, Manufacturing Technician	CAD Technician, Industrial Designer	Design Engineer, Interior Designer	Model Maker, Product Developer	Architect, Design Industries	Higher Education and Design Pathways