Grange Academy Senior Phase Assessment Overview 2024-25

NATIONAL 5 DESIGN AND MANUFACTURE



Week/Month	Learning Focus	Homework	Assessment	Coursework Submitted to SQA
May	Course introduction	Weekly homeworks covering the following:		
	Design Factor Analysis:	1. Function and Aesthetics		
	Function	2. Performance and		
	Aesthetics	Markets		
	Performance	3. Ergonomics		
	Market			
	Ergonomics			
June	The Design Process: Analysing a brief: research Analysing a brief: specification Generating ideas Developing ideas Modelling in the design process Use of graphics CAD/ 3D Modelling	Weekly homeworks covering the following: 1. The Design Process 2. The purpose of modelling 3. Sketching homeworks		
	Materials and Manufacture Theory: Basic introduction of wood joints and plastic forming processes.			

	Practical modelling activity – working with wood and plastics.			
August September	Unit 1 - DESIGN Practice Design Folio Project: Brief Specification Research Idea generation	Weekly homeworks covering the following: 1. Design process 2. What is a brief 3. The purpose of a specification		
October	Development Refinement Modelling Plan for manufacture Commercial Manufacture Theory	4. Research homework5. Idea generation6. Developing ideas7. Refining ideas8. Modelling	Unit Assessment - delivered with a project brief, such as the "Egg Holder" Commercial Manufacture: End of Unit Assessment	
October	Unit 2 – MATERIALS AND MANUFACTURE Practical Project: Create finished project with multi materials and various joining methods, choosing these independently to best suit the needs of the	Weekly homeworks covering the following: 1. Practical wood joints 2. Marking out tools 3. Marking out processes		
November	given project. Materials and Manufacturing theory topics will be taught alongside the unit project.	4. Reading drawings5. Tool selection6. Clamping and cramping7. Finishing		
December		8. Metal processes9. Plastics processes10. Assembly methods11. Planning for manufacture	Unit Assessment - delivered with a project brief, such as the "Beach Hut Money Box"	
December	PRELIM Full Prelim			

January	Final Assignments	Weekly homeworks covering	School deadlines will be set	
	Design Assignment = 55 marks	all course content, in exam	to aid the completion of	
	Practical Assignment = 45 marks	style questions.	the assignments.	
	Design Assignment 7 x A3 Folio Sheets covering the following:			
February	 1.1 Research 1.2 Idea Generation 1.3 Development 1.4 Refinement 1.5 Evaluation 			
March	Practical Assignment Final practical project, assessed on: 1.6 Measuring/Marking 1.7 Manufacture 1.8 Assembly 1.9 Finishing			Design Folio Assignment – Sent to SQA Worth 31% Practical Assignment – marked internally, verified by SQA Worth 25%
April	Theory Revision for Exam	Exam style homework questions		