The John Roan School
The best in everyone™
Part of United Learning

YEAR 11 DESIGN TECHNOLOGY PLANNER (2019/20)

Autumn I	Spring I	Summer I

NEA ASSESSMENT TASK
 	
AO1:Identify, investigate & outline design possibilities
 	
Section A: Identifying & investigating design possibilities
 	
• Independent research into a designer of company. A range of sources to strengthen research skills and deepen understanding of chosen focus.
• Product analysis of a range of key products for that designer,
• Market research and investigation.
 	
Section B: Producing a design brief & specification
 	
• Students identify a user/client and discuss briefly their needs and wants.
• Produce a design brief based upon market research and designer/company findings.
	NEA ASSESSMENT TASK
	
	AO2:Design & make prototypes that are fit for purpose
	
	Section E: Realising design ideas
	• A product or system is prototyped to show the client/user the product outcome.
	• Materials are used and chosen reflecting their knowledge and understanding of this area.
	• The process of prototyping helps to develop the product solution further and client/user feedback can form the basis of this development.
	• Consideration of potential materials that could be used. These will include:
	  ○ functional need
	  ○ cast
	  ○ availability
	• Key processes using tools and equipment discussed building on prior knowledge.
		REVISION
		New and emerging technologies
		
		Development's in new materials
		
		Systems approach to designing
		
		Mechanical devices
		
		Materials: selection, components & properties
		
		Ecological and social footprint
		
		Scales of production
		
		Specialist techniques and processes
		
		Designing and making principles
		
		Timed Assessments:
		Mock exam questions

Autumn II	**Spring II**	**Summer II**
NEA ASSESSMENT TASK AO2:Design & make prototypes that are fit for purpose Section C: Generating design ideas • Freehand sketching, 2D and 3D drawings used to communicate, system and schematic drawings, annotated drawings that fully explain detailed conceptual stages. Section D: Developing design ideas • Further explore and develop ideas for the product using sketching and modelling techniques.Students reflect on their clients' opinion of their ideas. Timed Assessments: MOCK exam – December 2019	NEA ASSESSMENT TASK AO2:Design & make prototypes that are fit for purpose Section E: Realising design ideas • Final prototype produced to a high • Key processes using tools and equipment discussed • What tools and equipment have been used to manufacture these products? Why have they chosen these tools and equipment? What are the issues relating to these processes? How will the manufacturer ensure good quality control? Section F: Analysing & evaluating • Evaluate your design against your specificatioms • Gather client/target market feedback on your product. Where possible use photos of clients interacting with your product • Suggest. Through sketches/models what possible improvements would make based on your final testing and evaluating.	AQA GCSE DESIGN TECHNOLOGY EXAM – June 2020