

DT			Year: 11		
AUTUMN		SPRING		SUMMER	
Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Theme/ topic: NEA Context and Research	Theme/ topic: NEA Specification and Ideas	Theme/ topic: NEA Ideas development, modelling and testing	Theme/ topic: NEA Production and evaluation	Theme/ topic: Exam prep Revision	Theme/ topic: N/A
By the end of this half term pupils will:	By the end of this half term pupils will:	By the end of this half term pupils will:	By the end of this half term pupils will:	By the end of this half term pupils will:	By the end of this half term pupils will:
Using their NEA context students will put into practice their research and analysis techniques learnt in previous projects.	Building on their research pupils to produce a design specification and begin generating design ideas for their clients.	Develop ideas using CAD modelling and prototype production with testing. Understand Iterative designing as designs are re-visited and developed based on building knowledge.	Production of their NEA practical project followed by evaluation reflecting their Half Term 2 specification.	Revision based on AQA DT specification using metacognitive techniques for remembering and retaining key information.	Exam
They will understand:	They will understand:	They will understand:	They will understand:	They will understand:	They will understand:
Understand the importance of research as an ideas generation tool for a client.	How to create a complex and useful design specification which can be used to inform design ideas.	How to use CAD/ CAM to create 2D and 3D development models on screen and with physical model.	How to apply the practical skills they have learnt and practiced over the past 5 years.	Wood, plastic, metals, textiles, systems and control.	

		How to use feedback to generate data to finalise their idea.	How to evaluate in depth using their specification to guide them.		
They will know how to:	They will know how to:	They will know how to:	They will know how to:	They will know how to:	They will know how to:
Use concise research to generate a design specification and give the information to create innovative design ideas.	Use a specification grid to create a set of rules to generate ideas for a client with.	Create models using the CNC router, laser cutter and 3D printer through either 2D design or Sketch up.	Use information generated to evaluate in depth and document client feedback for their final project.	Revise using notes, diagrams, and games. Work collaboratively to revise	
Link to prior learning	Link to prior learning	Link to prior learning	Link to prior learning	Link to prior learning	Link to prior learning
Pupils working on their own project using prior learning combining all of their projects from year 7-10. Prior learning gives them the ability to choose appropriate and relevant information.	Prior learning has given pupils practice in creating specifications as well as design idea generation and sketching techniques.	CAD/CAM Testing	Evaluation skills. In Year 11 pupils use these skills to analyse the evaluation against their specification in depth.	All knowledge and skills from the Year 7 - 11 curriculum	