Торіс	Rationale	Knowledge acquisition	Task - Notes	Key vocabulary	Skills and enrichment
Design Development CAD Level 1	This topic gives students the opportunity to gain skills and knowledge of CAD software used to create 3D virtual outcomes.	To know that CAD is used to generate and develop design ideas, showing iteration. To know how to set up a drawing template correctly on Google- sketch up	What is CAD, where is it use? Why? Set up of google sketch up template in MM. Tool bars Scale 2D shapes Push pull	CAD Scale 2D 2D Navigate	 Subject specific Skills. Idea creation & development Graphical communication ICT Skills Numeracy Measuring in MM Scale Literacy Key vocab, meanings, and context Comprehension of instructions for processes Cultural Capital Big brands such as Apple and Dyson use of CAD Links to National Curriculum Design: Use a variety of approaches to generate creative ideas. develop and communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling, oral and digital presentations and computer-based tools Evaluate: Understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers, and technologists.
	Links to KS2. Possible use of CAD software to create designs (Personal use of games such as Minograft)	To know how to use the drawing features tools on Google sketch up to create features on a CAD design drawing.	Navigate Add a radius to edge Add a chamfer to the edge Different views Resize function Copy and paste function	Radius Chamfer	
	Minecraft) KS3. Use of CAD to develop outcomes for CAM.	To know how to render a CAD drawing on Google Sketch up To know how to use all of the tools taught over the level 1	Paint effects Use all tools taught so far to create a final CAD drawing of a project (can do iterations)	Render Iteration Navigate Radius Chamfer	
	Ladders towards An understanding of CAD used in the wider world and how designs can be quickly developed	induction to produce a project drawing(money box)		Render Iteration	
	using CAD and iterations shown. Skill building in preparation for GCSE				