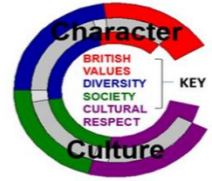


DESIGN AND TECHNOLOGY

Link - R:\Teaching\Creative (Gabor)\Tech MDH\ - CURRICULUM INTENT\Y7\3 CAD - Architecture (New 2023)

YEAR 7 – CAD Foundation Unit (KS3) = 7/8 Week rotation																		
INTENT: To play a part in developing knowledge and understanding of the Design and Technology National Curriculum. Students are to... apply CAD knowledge creating a range of products which get progressively harder and more complex over time.					The bigger picture: This scheme plays an important role within the technology curriculum as it is essentially teaching skills from the National Curriculum and preparing students for the challenges of key stage 4. The Next Step: This unit is preparation for the Engineering Design Course at Key stage 4. It focusses predominantly on Unit R107 / R039 which is based upon designing ideas using CAD Software.												 <p>Character & Culture</p> <p>Character and Culture is embedded within the curriculum map and coded as shown.</p> <p>Society</p> <p>Design and Technology can lead to many careers in society. An example of this is within the STEM routes.</p> <p>* Link to C&C</p>	
Lesson	British Values		Diversity						Society									
Retrieval Task:	PURPOSE		FUNCTION		INNOVATION		KEY COMMANDS		KEY COMMANDS		INSPIRATION		JOBS		ROTATIONS			
Objective: I do, we do & you do...	2D Design – Basic Shapes 1	2D Design – Basic Shapes 2	2D Design – 3D shapes 1	2D Design – 3D Shapes 2	2D Design - Logo Design 1	3D Shapes – Logo Design 2	3D Shapes – Logo Design 3	3D Shapes – Logo Design 4	House 1	House 2	House 3	House 4	House 5	House 6	Overspill week – Catch up finish off.			
Silent Study:	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E	B	M	E
Assessment:	Baseline assessment		FAR 1						FAR 2		INPUT GRADES		End of year assessment					
Homework:	Spelling – Definitions						Spelling – Definitions											
Literacy:	2 for 2 and 3 for 3 – Within the unit of work teachers use educational and subject specific key literacy. <u>Key Vocab</u> 2D Design software, google SketchUp, dimension, vectorise, bitmap, explode, user requirements, 3 dimensions, 2 dimensions, laser cutter, plot, accuracy, precision, professional, health and safety. <u>Key words and key pictures</u> – Each unit of work has a handout including all key terms, words, tools and materials.																	
Cultural Capital:	Applying CAD: Using CAD software to design projects inspired by real life architectural landmarks helps students acquire essential knowledge and skills, fostering an appreciation of their local heritage in line with cultural capital. Students have a CAD project within Year 7, 8 and 9 to introduce and embed these skills.																	
Connected Knowledge	This is a unit designed to... prepare students for the future of design and technology at Bilton School as having CAD/CAM skills is a priority and plays a big part of the future curriculum. Following this it supports the journey into KS4 and 6th form Art and Design. Across the school this supports the Art, ICT and Business departments as these skills are transferable and are beneficial in the curriculum plan. Beyond school , the world of work is becoming more increasingly automated, and we are in an area of the country with a huge amount of engineering companies and potential future jobs. CAD/CAM is a perfect steppingstone to further education, apprenticeships, and university.																	
IMPACT	Students measure progress using the department <u>F.A.R tracking sheets</u> which are in the <u>Assessment Booklets</u> . Teachers track the marks given using the <u>department shared mark book</u> and <u>SIMS</u> . This will show progress over time and prepare students for future learning at Bilton School.																	