



MAGHULL HIGH SCHOOL – CURRICULUM MAP

Unit: CAD	Week 1/2	Week 3	Week 4/5	Week 6	Week 7	Week 8	Week 9-11	Week 12
TOPIC	Introduction to Tinkercad tutorials (1-12)	Chess piece tutorial	Designing a chess set Research into a theme and design ideas Designing the pieces and board	Introduction to 3D printing – Braille identity tag	Architecture – Introduction to shipping container building design brief Lyfta – Hlgh water Guatamala	Shipping container research tasks	Design Ideas and development Costings	Evaluation and presentations
Knowledge & Skills development	Understanding of Computer Aided Design Using Tinkercad Research into existing products Creating Ideas Scale and dimensions							
Assessment / Feedback Opportunities	Formative teacher assessment – verbal, Q&A		Summative teacher assessment – of chess set	Formative teacher assessment – verbal, Q&A Seneca learning homework - CAD			Formative teacher assessment – verbal, Q&A	Summative teacher assessment – of shipping container design
Key Vocabulary	Tinkercad, workplane, 3D print, elevation, join, group, stereo lithography, PLA, filament							
Literacy/Reading Opportunities	Booklets, PowerPoint							
Cross curricular themes	Lyfta – Hlgh water Guatamala (Natural disasters) – Geography Measuring and geometry – Maths							
Personal Development (including British values, RSE, Citizenship)	Sharing resources and equipment Teamwork Inclusivity - braille							
Career Opportunities	Engineer, Product designer, Architect, Surveyor							

This weekly plan fits inside the Key Stage 3 & 4 Learning Journey and is supported with a class booklet. The weekly plan is based on 1 term which is approximately 18 lessons (12 weeks)