

Year 8 Curriculum Map : Design and Technology

	Autumn	Spring	Summer
Assessment Objectives	AO1 - Core Technical Principles Materials and their working properties AO2 - Specialist Technical Principles Selection of materials or components, specialist techniques and processes, surface treatments and finishes. AO3 - Design & Making Principles investigating the work of others design strategies tools and equipment		
Unit Length	Topic: investigation (6 lessons)	Topic: Designing and Making (6 lessons)	Topic: Making (8 lessons)
Key Learning Outcomes	<ol style="list-style-type: none"> Intro into standards / baseline assessment Recap health and safety and how to follow rules within a workshop Investigating plastics, where does it come from and how do we get from source to stock form? What tools and equipment is required to manufacture plastic Progress assessment check - Knowledge audit – plastic Feedback, reteach and D.R.I.T lesson 	<ol style="list-style-type: none"> Thermo setting plastic Sustainable plastic 3d printing Progress assessment check - Knowledge audit Fusion intro Fusion designs – Choice of projects Fusion design – Choice of projects Fusion design – Choice of projects Feedback and D.I.R.T lesson 	<ol style="list-style-type: none"> 2D design Manufacturing process plastic/ fractional distillation Progress assessment check - Knowledge audit - investigation Alternative to plastic Ecological issues with plastic Manufacturing plan Practical assessment of jewellery Evaluation, feedback and D.I.R.T lesson
Prior knowledge	KS2: Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment].		
CEIAG Specific careers links	Link to careers routes: product designers, carpenters, interior design, jewellery Topics to be delivered by employers: employers from building merchants Link to personal skills: problem solving		
RRSA	Article 12: respect for the views of the child Article 13: freedom of expression Article 14: Freedom of thought, belief and religion	Article 3: best interests of the child Article 28: Right to education Article 29: Goals of education	Article 23: children with a disability Article 29: Goal of an education Article 42: knowledge of rights
Cross curricular links	Maths – nets and developments Science – classification of properties and range of materials - polymers Literacy links in evaluation writing.		
Useful websites/videos	https://www.technologystudent.com/	http://mr-dt.com/	https://www.bbc.co.uk/bitesize/topics/zxhhvcw
Wider Reading	Identifying key words that are associated with research such a product analysis, anthropometric, ergonomics, design criteria, etc. Encourage students to books on design such as the design of everyday things by Don Norman		
Literacy Programme	<ul style="list-style-type: none"> Decode it NOW Guided practice/model answers Sentence Starters Writing strategies 	<ul style="list-style-type: none"> Review it now Guided practice/model answers Sentence Starters Writing strategies 	<ul style="list-style-type: none"> Decode it NOW Guided practice/model answers Sentence Starters Writing strategies
Independent Learning Tasks	Mind-map revision homework Retrieval practice homework Knowledge Organiser practice Questions.	Mind-map revision homework Retrieval practice homework Knowledge Organiser practice Questions.	Mind-map revision homework Retrieval practice homework Knowledge Organiser practice Questions.