

Year 7 Curriculum Map : Design and Technology – Block Bots

	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"> 1. Intro into standards / baseline assessment 2. Health and safety and how to follow rules within a workshop 3. Investigating wood, where does it come from and how do we get from source to stock form? 4. What tools and equipment is required to manufacture wood 5. Progress assessment check - Knowledge audit – wood 6. Feedback, reteach and D.R.I.T lesson 	<ol style="list-style-type: none"> 1. Design ideas 2. Manufacturing of the block bot and manufacturing plan 3. Manufacturing of the block bot and manufacturing plan 4. Manufacturing of the block bot and manufacturing plan 5. Unit of unit practical assessment 6. Evaluation feedback and D.I.R.T lesson 	<ol style="list-style-type: none"> 1. Can light – design brief 2. Social impacts and sustainability 3. Progress assessment check – knowledge audit on sustainability 4. Connecting the light; decoration of the can 5. Manufacturing wooden stand 6. Assembly of the can light 7. End of unit practical assessment 8. 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 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 – conversions mm,cm,m Science – classification of properties and range of materials. 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.