

**YEAR 7 Curriculum Map - Design & Technology**  
1 term rotation

		Lesson Focus	Homework	Assessment	Enrichment																
12 week term rotation	Block Bot Project	Week 1	Baseline Test. Knowledge questions with freehand sketching and rendering task. 2D and 3d drawings with annotation.		Baseline knowledge test Grade - No feedback	H/W club															
			Health and Safety recap.  Discuss manufacturing processes. Link to Careers.																		
		Week 2	<i>Key concept of sustainability</i>					Peer assessment – spellings.	H/W club												
			<i>Explanation of design influences and choices, exploring the importance of designing sustainably.</i>																		
		Week 3	<i>FSC, logging and Sustainability</i>							Complete ACCESSFM evaluation.	<b>ACCESSFM Evaluation graded.</b> Self/peer assessment - ThinkDO	H/W club									
			<i>ACCESSFM evaluation of a physical product.</i>																		
		Week 4	<i>Engineering drawing styles. Design specification launched.</i>										Final Design	Self/peer assessment – ThinkDo	H/W club						
			<i>Final design of ScrapBot</i>																		
		Week 5	<i>Demo of ScrapBot manufacturing processes.</i>													Production diary and production plan	Self/peer assessment – Production diary	H/W club			
			<i>Production of ScrapBot.</i>																		
		Week 6	<i>Production of ScrapBot.</i>																Evaluation of project	<b>Practical Work graded, written feedback</b>	H/W club
			<i>Production/Evaluation</i>																		
		HALF TERM																			
Lamp	Week 7	<i>Introduction to electrical circuits Project launch – design situation and specification</i>	Knowledge Organiser – Electronic circuits	Self/peer assessment – specification <b>Evaluation Graded</b>	H/W club STEM Club																

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Night light		Tinker CAD			
	Week 8	Planning circuits – make a sound, turn a light on/off – Input and output circuits	Research – existing products	<b>Written feedback – circuit design</b> <b>Knowledge Quiz</b>	H/W club STEM Club
		Design your circuit			
	Week 9	Design & test your circuit	Knowledge Organiser – 2D CAD	<b>Circuit - graded</b>	H/W club STEM Club
		Project launch -Research & existing product analysis			
	Week 10	Introduction to 2D CAD - creating laser cut files	Final Design image	Quiz – 2D CAD Self/peer assessment	H/W club STEM Club
		Initial design ideas/image search			
	Week 11	Evaluate ideas against specification	Knowledge Organiser – assembly methods	<b>Written feedback - design</b>	H/W club STEM Club
		Final Design 2D CAD			
	Week 12	Final Design 2D CAD	END OF ROTATION	<b>TA – Knowledge Assessment</b> <b>Final Product graded</b>	H/W club STEM Club
		Product assembly and testing			
		Evaluation Knowledge Assessment			