

Department	Design and Technology
Year	9
Qualification	Product Design / Resistant Materials

## BCHS Curriculum Map 2015-2016

Term	Week Commencing	31.08.15	7.9.15	14.9.15	21.9.15	28.9.15	5.10.15	12.10.15	19.10.15
Autumn 1	Topic Product Design <b>MP3 Amplifier</b>	Product Analysis – Analysing existing products using ACCESSFM	Resistors – colour code identification. Introduction to soldering	Components used in the amp. circuit – identification and placement of capacitors	The Systems approach to electronics	Operational Amplifiers	Output Components – how does a speaker work.	Power supplies and switches	20 <sup>th</sup> Century Design Movements and influences
	Assessment	Analysis Assessment				Extended writing – op amps (literacy)		Practical Assessment	Tiered questioning on design influences
Autumn 2	Week Commencing	2.11.15	9.11.15	16.11.15	23.11.15	30.11.15	7.12.15	14.12.15	
	Topic Product Design <b>MP3 Amplifier</b>	Creating and modelling design ideas	Development of ideas into a Final Design	Computer Aided Design. Converting designs into CAD	Computer Aided Manufacture – Creating Designs using a laser cutter.	Final Assembly and testing	Suitable finishes and how to apply them	Final Product Evaluation-	
	Assessment		Assessment of design ideas			Practical Assessment		End of Project Assessment (Literacy)	

Spring 1	Week Commencing	4.1.16	11.1.16	18.1.16	25.1.16	1.2.16	8.2.16
	Topic Resistant Materials – <b>Desk Tidy</b>	Introduction to the Desk Tidy project – H & S in the RM Workshop.	Design Ideas using student derived success criteria.	Design Ideas using student derived success criteria.	Marking off and cutting housing joints.	Applying own designs to the desk tidy – marking designs on the material and shaping using coping saws and files	Applying own designs to the desk tidy – marking designs on the material and shaping using coping saws and files
	Assessment			Assessment of Designs (Literacy)			Practical Assessment
Spring 2	Week Commencing	22.2.16		29.2.16	7.3.16	14.3.16	21.3.16
	Topic	Applying own designs to the desk tidy – marking designs on the material and shaping using coping saws and files		Safe use of the disc sander. Shaping the desk tidy using the sanding machine.	Gluing and pinning the housing joint and aero-ply front	Wood Finishes – suitable finishes for wooden products – applying a finish.	Final Product Evaluation.
	Assessment			Written Assessment – Resistant Materials			End of Project Assessment (Literacy)

Summer 1	Week Commencing	11.4.16	18.4.16	25.4.16	2.5.16	9.5.16	16.5.16	23.5.16
	Topic Graphic Design Point of Sale display for a confectionary item	Introduction of the project. What is Graphic Design?	Corporate Identities Logos and the importance of strong corporate identity	Logo design for a confectionary company	Preparing a brief and initial Design Ideas	Design Development of Ideas	Final Designs. Developing a final working solution	Making – Modelling the wrapper for the confectionary item.
	Assessment			Assessment of Logo designs		Design Assessment		Written Assessment – Graphic Design (Literacy)
Summer 2	Week Commencing	6.6.16	13.6.16	20.6.16	27.6.16	4.7.16	11.7.16	18.7.16
	Topic	Making – Modelling the wrapper for the confectionary item.	Point of sale display Product analysis. Analyse a PoS display using ACCESS FM	Point of Sale Display Design	Point of Sale Display Design / Making	Making the Point of Sale Display	Making the Point of Sale Display	Final Product Evaluation.
	Assessment	Practical Assessment				Practical Assessment		Final Evaluation assessment (Literacy)