

KS3 PROGRAM OF STUDY - Design and Technology 3D Design

Year	Unit Title	Learning Objectives	Assessment
9 Week No.	Design and make Product		
1	LED Acrylic Torch / Packaging	Understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists	Consistency of Production
2		Understand how more advanced electrical and electronic systems can be powered and used in their products [for example, circuits with heat, light, sound and movement as inputs and outputs]	Electronic components
3		Understand how more advanced mechanical systems used in their products enable changes in movement and force	Mechanical components 1
4			Mechanical components 2
5		Analyse the work of past and present professionals and others to develop and broaden their understanding	Brands and Marketing
6		Understand and use the properties of materials and the performance of structural elements to achieve functioning solutions	Properties of Materials
7		Understand mathematical calculations in problem solving	Mathematical Challenge
8			Mathematical Challenge
9		Final Assessment	End of Module Test

Please note; Y9 will be taught in a 9 week carousel