Year: 9	Curriculum Intent: Students will develop a ba	asic understanding of all the topics covered by the	GCSE AQA Design &		
	Technology specification. They will learn key skills and knowledge through a series of mini projects that support the				
Subject: Design	work undertaken in theory lessons and that broadens the students workshop capabilities in preparation for their				
& Technology –	NEA in year 10 & 11. Practical projects allow students to have creative/design freedom which allows them to explore within arrass of their own interacts. The theory side of the source follows the three main areas of the AOA				
	within areas of their own interests. The theory side of the course follows the three main areas of the AQA				
Product Design	specification which includes Core Technical Principles, Specialist Technical Principles and Design & Making Principles. Within these areas students will cover all of the exam topics ensuring a strong understanding of materials, processes, design communication and technologies as this information could affect what they choose to work with in their				
	coursework at the end of year 10.				
	Term 1	Term 2	Term 3		
	Exam Theory	Exam Theory	Exam Theory		
	Wooden Animal Project	CAD - Fusion	Children's Toy Project		
	Bendy Boxes Project	Children's Toy Project	, ,		
Topic Titles (in order of delivery)	1.The work of others (Harry Beck, Norman Foster, Raymond Dyson, Apple, Alessi)1.Communication of ideas (isometric, 2 point 	1.CAD skills (sketches, extrusion, revolve etc)1.Investigating, primary & secondary data2.Enterprise2.Human factors3.Designing for groups3.Development of design ideas4.Environmental considerations4.Prototype development	<ol> <li>Modelling techniques</li> <li>Communication of ideas</li> <li>Exam technique</li> <li>Forces and stresses</li> <li>Design strategies</li> </ol>		
	Project Focus; Woodwork	Project focus; CAD			
	Health & Safety	• Learning how to use Fusion 360			
	Tools & Equipment	software			
	Materials	<ul> <li>Following step-by-step software</li> </ul>			
	Laminating	tutorials			
	Using Jigs	How to create their own individual 3D			
	Hinges & joints	objects in Fusion 360			

	• Finishes	• CADs relation to CAM and the use of the router and 3D printer	
Key knowledge /	1. Workshop practical Health & Safety	1. CAD skills on fusion/2D design	1. Exam Techniques and questioning
<b>Retrieval topics</b>	Tools & Equipment		2. Layout of NEA Project
Understanding / Sequence of delivery	1.Harry Beck1.Isometric2.Norman Fosterdrawing skills3.Raymond2.LaminationTemplierprocess3.2 point4.Dyson3.2 point5.Apple4.Orthographic6.Alessi5.Drawing5.onversions5.	<ol> <li>crowdfunding, co-operatives and fairtrade</li> <li>technology push/market pull</li> <li>6 R's and planned obsolescence</li> <li>Designing for groups</li> <li>Systems approach to designing</li> <li>1. Ergonomics</li> <li>Anthropometrics investigation</li> <li>Focus groups, interviews and market research</li> </ol>	1.Modelling techniques1.scales of production2.Exam strategies in preparation for the exam2.mechanical devices3.Forces and stresses3.Retrieval practice5.batch/mass production
Assessment	Practical based projects to be assessed using	Maximum Mark 9	Grade Boundaries 8 7 6 5 4 3 2 1
	8552 DESIGN AND TECHNOLOGY 8552/ 8552/		80 75 66 57 48 35 22 10 71 63 56 49 42 31 20 10