

Curriculum Long Term Planning Overview	Key Stage 3	Subject Area: Design & Technology	Academic Year: 2018-19
---	--------------------	--	-------------------------------

Year	Study Modules	Resistance Materials (Plastics)	Resistance Materials (Wood)	Textiles	Graphics	Food Preparation and Nutrition
Year 7	Study Modules	Design and make a souvenir key ring and blister pack	Design and make a wooden tangram puzzle and box	Introduction to textiles technology Learning about woven and non-woven fabrics Using a sewing machine Learning about a range of surface decorations Constructing a bag for life using calico	Design crisp packaging	Hygiene and safety Basic nutrition Knife skills Weighing and measuring
	Assessment	Design specification Practical and design work	Practical and design work	Design page Practical task Final product	Mood board Product research Practical outcome – digitally designed packaging in Photoshop	Practical and design work

Year	Study Modules	Resistance Materials (Plastics)	Resistance Materials (Wood)	Textiles	Graphics	Food Preparation and Nutrition
Year 8	Study Modules	Design and make a folded plastic product (photo frame and phone stand)	Design and make a traditional moving toy that uses simple mechanisms to make it work	E-Textiles Introduction to electronic textiles Understand the use of a manufacturing specification Understanding how a circuit works Creating a workable circuit Design and making a soft product to house an electronic circuit Looking at new innovative ideas of the theme	Design and illustrate the front cover of a fictional book	The study of specific micronutrients and how they contribute to a balanced diet Investigating international cuisine, conducting an investigation
	Assessment	Modelling and testing, use of 2D design software Practical and design work	Modelling and use of iterative design Practical and design work	Task analysis Manufacturing specification Practical task Completed product	Research of illustrators Own design ideas Final book cover design	Written work showing nutritional knowledge and application to recipes Pizza investigation write-up Practical work

Year	Study Modules	Resistance Materials (Plastics and Wood)	Electronics	Textiles	Graphics	Food Science
Year 9	Study Modules	Design and make a small storage unit to store and/or display items of your choice	Create a colour changing nightlight	Pattern cutting Building on from Year 7 scheme Designing and making a bag of choice Pattern cutting using blocks Constructing a viable product based on a manufacturing specification	Branding for shop	Sensory analysis and methods of testing Planning a food science investigation The study of basic food science and how protein starch changes during cooking to create specific foods
	Assessment	Written work showing an understanding of the properties and uses of timber Use of primary research to investigate a design problem Practical work	Written work showing an understanding of current, resistance, Ohms law 2D design and CAD drawings Final practical outcome	Observational drawing Manufacturing specification Practical task Completed product	Written analysis of evidence understanding existing brands Hand-drawn designs Digital outcomes (in Adobe Illustrator and Photoshop)	Written work showing an understanding of coagulation, denaturation, syneresis, gelatinisation Write-up of food science experiment

Curriculum Long Term Planning Overview	Key Stage 4	Subject Area: Design & Technology	Academic Year: 2018-19
---	--------------------	--	-------------------------------

Year	Study Modules	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 10	Study Modules	<p>Wood and Timber</p> <p><u>Practical Work</u> Screen printing</p> <p><u>Theory</u> Classification and sources of wood and timber Finishing techniques Environment and sustainability Joining techniques Production and classification of manufacturing boards Standard components Fibres and fabrics</p>	<p>Wood and Timber</p> <p><u>Practical Work</u> Upholstered foot stool</p> <p><u>Theory</u> Production and classification of manufactured boards, knock down fittings and standard components, fibres and fabrics, costing</p> <p>Modelling to scale</p>	<p>Plastics and Polymers</p> <p><u>Practical Work</u> Folded plastic desk tidy with vacuum formed insert</p> <p><u>Theory work</u> Production and classification of plastics and polymers, types of production, use of jigs and templates, advantages and disadvantages of CAD/CAM</p>	<p>Programmable Components</p> <p><u>Practical Work</u> Interactive touch light</p> <p><u>Theory</u> Programmable components Circuit diagrams and flow charts</p> <p>Smart and modern materials</p> <p>Production and classification of paper and board</p>	<p>Metals</p> <p><u>Practical Work</u> Pewter cast pendent</p> <p><u>Theory</u> Production and classification of ferrous and non-ferrous metals</p>	<p>NEA</p> <p>Initial analysis and mind maps</p> <p>Identification of a need and brief</p> <p>Primary and secondary research</p> <p>Initial ideas</p>
	Assessment	Mock exam based on theory covered so far	Mock exam based on theory covered so far	Mock exam based on theory covered so far	Mock exam based on theory covered so far	Mock exam based on theory covered so far	Mock exam (entire paper)

Year	Study Modules	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 11	Study Modules	<p>NEA</p> <p>Modelling and testing of initial ideas</p> <p>Details of final solution</p>	<p>NEA</p> <p>Completing prototype and making diary</p>	<p>NEA</p> <p>Modelling and testing</p> <p>Portfolio and sketchbook handed in ready for submission to exam board</p>	<p>Energy Sources</p> <p>Mechanical systems</p>	<p>Revision and Exam Technique</p>	
	Assessment		Mock exam (entire paper)		Mock exam (entire paper)		