

## Technology Curriculum Overview

	Rotation 1	Rotation 2	
Year 7	What is Design Technology? Creativity, Materials and Skills. Workshop Health and safety. Key skills with Tools and Equipment. Types of wood: BLOK-BOT Design and make project. Review and Evaluation	Food Technology: Nutrition & Healthy eating. Key cooking skills. Knife skills. Healthy eating and food groups. Diet and health impacts. Using the Hob, Grill and Oven safely. Hygiene, bacteria, preparation and cleaning.	
Year 8	Developing designers! Building on skills and creativity in DT. Developing skills with tools and equipment. STEM-Sound design. PASSIVE AMP PROJECT. Properties of materials: plastics. Design Development and creativity. Evaluation and review.	Food Technology: Developing kitchen skills and developing a range of skills and dishes. Further knife and equipment skills. Chopping, pairing and dicing. Nutrition throughout life. Further practical kitchen skills. Food combining. Raising, shortening and seasoning.	
Year 9	'Reverse Engineering' in Design Technology: Making Engineers... Systems and Control. CAD/CAM. Basic electronics and electrical circuits. Production line MFG. 2D Design tools CAD skills. Accuracy in Manufacturing & quality control. NIGHT-LIGHT project. Iteration and iterative design cycles. ACCESSFM. Life cycle assessment. Properties of materials: Metals. Basic engineering principles of CAM. Sustainability and resources.	Food Technology: Foods from different cultures. Specific dietary requirements. Faith based diets. Food miles, Organic products. Food stewardship and animal welfare. Impacts of diet on health and related diseases. Practical dishes from different cultures. European (Mediterranean) Indian and Chinese cooking.	
	<b>Term 1</b>	<b>Term 2</b>	<b>Term 3</b>
Year 10: Engineering	Fundamentals of Engineering: Materials properties and Skills.	Be an Engineer! Developing Engineering skills. Multi material projects to explore manufacturing processes.	Unit 2: Engineering design. From idea to Prototype. Exam board Coursework NEA design project. 30GLH. Engineering drawing.

		<b>Thors Hammer Engineering Project. Centre Lathe and Milling machine processes</b>	<b>CAD modelling. Iterative design. Product analysis of existing products.</b>
<b>Year 11: Engineering</b>	<b>Specific engineering applications: CAD/CAM drawing and modelling.</b>	<b>Unit 1: Engineering Manufacturing Practical CW. Machining, assembly, quality control.</b>	<b>Unit 3 Exam theory: Engineering fundamentals. Process, Maths, interpretation.</b>