

Subject Design & Technology

		All student experience all the modules in a rotation throughout the year			
		Module 1	Module 2	Module 3	Module 4
		Intro to Electronics and extension of Product design skills	Developing greater Food skills	mechanical trophy product design	Developing greater Textiles skills
Year 8	Knowledge	Using Techsoft v3 to produce a product that utilises Laser cutting/engraving with acrylic. Electronic circuit made that introduces soldering to light up an acrylic sign via USB connection	Bread making is introduced with the manufacture of Rolls, Chelsea buns, scotch eggs and Quiches	Mechanisms are used to design a kinetic trophy. Both hand and some machine tools are introduced focussing on Health & safety whilst working with wood. Isometric graphic drawings	Sewing machines to develop skills using fabric techniques to fabricate an apron. Sublimation printing techniques and CNC embroidery are introduced.
	Skills	Use of software How to save and share designs Use of laser cutter Soldering skills to make a circuit. Wooden base constructed. Assembly of product	Various practical activities carried out to extend food preparation skills, using equipment and developing a wider appreciation of food items from around the world	Hand tools used accurately with safety during production of a working model that has mechanical movement providing interest for the trophy design	Use of the sewing machines, sublimation printing and CNC sewing techniques to manufacture a product with skill and safe operation. Knowledge of fabric types and styles.
	Assessment	Occasional skills tests throughout the year or module	Occasional skills tests throughout the year or module	Occasional skills tests throughout the year or module	Occasional skills tests throughout the year or module