

Area of study	Your child will ... (Knowledge)	Your child will be able to... (Skills)
Rotations		
Food: International Food	<ul style="list-style-type: none"> • Describe what type 2 diabetes is and the key risk factors for developing it (lifestyle, diet, culture, medical) • Explain the impact of food miles, food waste, seasonality and provenance • Know how to plan effectively to complete a practical outcome independently 	<ul style="list-style-type: none"> • Use tools and equipment (Develop knife, hob and oven) • Use intermediate skills (Kneading, Saute, Caramelising, Working with high risk foods and hot oil) • Follow health and safety (Risk assessments, PPE) • Make a range of dishes (Spring Rolls, Fresh Pasta, Risotto, Swiss Roll, Curry, Custard Tart)
Engineering Manufacture : CAD/CAM and Electronics - Amplifier	<ul style="list-style-type: none"> • Describe how a simple circuit works • Explain the components in the circuit • Describe the term composite material • Explain how the Laser Cutter works • Explain the benefits of CNC production • Know how to plan effectively to complete a practical outcome on CNC (Production Plan) 	<ul style="list-style-type: none"> • Use soldering equipment to make a circuit (Soldering iron, wire strippers, wire cutters, pliers) • Revise and Develop CAD skills (casing design, orthographic drawing) • Assemble component parts • Make an Amplifier
Engineering Design: Product Design - Torch	<ul style="list-style-type: none"> • Name the stages of the design cycle (Identify, Design, Optimise, Validate) • Describe the terms anthropometric and ergonomic • Demonstrate how to communicate a design (Drawing techniques, Labelling, Annotation) • Know how to plan and develop a prototype 	<ul style="list-style-type: none"> • Develop design ideas using 2D/3D drawing techniques (isometric/oblique/1 & 2 point perspective) • Use labelling and annotation to communicate design ideas • Use CAD to produce a design proposal (Google sketchUp) • Follow health and safety (Risk assessments, PPE) • Use tools and equipment (Craft Knife, Hand file, Rasp, needle Files)