

# SJC KS4 CURRICULUM MAP

<p>10</p>	<p>Design and Technology Product Design</p> <ul style="list-style-type: none"> <li>• Key skills – paper, board, plastic, wood &amp; metal</li> <li>• Joints</li> <li>• Resin and polymers</li> <li>• Laser cutting exercises</li> <li>• Upcycling and sustainability</li> <li>• Practice NEA – Lamp Project</li> </ul> <p>Art -Textiles</p> <ul style="list-style-type: none"> <li>• Corset – pattern &amp; material manipulation</li> <li>• Artist Research 1 Primary Research</li> </ul> <p>Initial Ideas Development of Ideas</p> <ul style="list-style-type: none"> <li>• Final Product that realises intentions</li> <li>• Food</li> </ul> <p>Students will be learning the theory section of the GCSE.</p> <ul style="list-style-type: none"> <li>• Food Science – Coagulation, denaturation, enzymic browning, aeration, caramelisation etc</li> <li>• Cooking methods – convection, conduction, radiation</li> <li>• Food spoilage – micro organisms, bacteria, pathogens</li> <li>• Food safety – temperatures, dates, high risk foods</li> </ul>	<p>Design and Technology Pupils will be studying the CORE aspects of the specification through practical and theory to gain a broad knowledge of all the key materials within DT. Pupils will learn specific key materials and systems which will be covered through theory lessons and reinforced through exam questions. A practice NEA is essential to cover all the design and make elements of the specification.</p>	<p>Food safety Food Spoilage Food Science Market research Product analysis Planned obsolescence Finite resources Production methods Disassembling</p>	<p>Testing Iteration Developing</p>	<p>PPE Practice NEA assessment using AQA specification Investigating and research. Design Brief and Specification. Initial design ideas. Development of design ideas. Prototype manufacture. Testing and evaluation.</p>
<p>11</p>	<p>Design Technology – Product Design 1 Theory lesson a week focus on Core skills 20% of paper and Specific Materials 30 % of paper in line with NEA. 50% design and make. NEA - Context given by AQA Pupils will follow each specification point using fixed deadline for each criteria. Identifying and exploring contextual challenge. Design brief and Specification Initial design ideas Development of designs Modelling and manufacture Evaluation and testing Food Preparation &amp; Nutrition: Students will be completing NEA 1 15% &amp; NEA 2 35% Art textiles – Component 1: Portfolio sketchbook and a final product that realises intentions Component 2 (ESA): Preparatory sketchbook and a final product completed during 10 hour focused unaided study period.</p>	<p>To ensure pupils have specific knowledge of the DT specification. The NEA is 50% of the overall grade. The NEA is marked out of 100. Students will need to complete the coursework to enable completion of GCSE</p> <p>Students will need to complete both pieces of coursework to enable completion of the GCSE.</p> <p>Students will need to complete both pieces of coursework to enable completion of the GCSE.</p>	<p>Prototype Manufacturing Specification Production Aid Quality Control</p>	<p>Iteration Evaluating Improving Testing</p>	<p>Y11 PPE Feedback sheet for NEA Covering Investigating and research. Design Brief and Specification. Initial design ideas. Development of design ideas. Prototype manufacture. Testing and evaluation</p>