



## Curriculum Intent, Implementation & Impact

COURAGE  
CONFIDENCE  
CHARACTER



**Vision:** Develop students' knowledge and skills of using a wide range of tools, Machinery and materials

<u>Intent</u>	<u>Implementation</u>	<u>Impact</u>
<p>Develop students' knowledge and skills of using a wide range of tools, machinery and materials. Analyse gaps between prior and current learning to improve recall memory skills.</p> <ul style="list-style-type: none"> <li>● Develop the creative, technical and practical expertise needed to perform everyday tasks independently and with <b>Confidence</b>. To also have the ability to participate successfully in an increasingly technological world.</li> <li>● Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users. <b>Open-Mindedness</b></li> <li>● Critique, evaluate, peer assess and test their designs and prototypes. <b>Curiosity</b></li> <li>● To support progression to GCSE courses. <b>Motivation</b></li> </ul>	<ul style="list-style-type: none"> <li>● Power of three at the start of every lesson. (Last Lesson, Last Term and Last Year.)</li> <li>● Students levelled using Exploring, Developing, Securing and Extending to aid progression of learning.</li> <li>● Use research and exploration to understand user needs. Students will do this by developing a clock in year 7 (Pine / Acrylic), Pewter keyring in year 8 (Casting Metals) and Lamp in year 9. (Programming 2D Tech soft)</li> <li>● Identify and solve their own design problems.</li> <li>● Develop specifications to inform the design of innovative, functional and appealing products that respond to needs in a variety of situations. Specifications are written into homework tasks for year 7 and 8.</li> <li>● Produce sketches though hand drawing and CAD to generate creative ideas.</li> <li>● Select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture to overcome design problems. (Scroll saw, Pillar Drill, Sander, Brazing hearth and Tenon saw)</li> <li>● Select from and use a wider, more complex range of materials considering their properties; Pine, MDF, Plywood, Acrylic plastic, Aluminium, Steel and Pewter</li> <li>● After school KS3 club where student develop their own projects <b>Culture Capital</b></li> </ul>	<ul style="list-style-type: none"> <li>● Students will be able to work to a design brief and specification.</li> <li>● Students will be able to produce a range of creative design to suit a target market.</li> <li>● Students will be able to select and use a range of tools and materials to solve problems.</li> <li>● Ks3 will equip students with a suitable foundation to progress onto GCSE Design and Technology.</li> <li>● Students will be able to explain processes used to plan, monitor, and assess personal understanding and performance. <b>Metacognition</b></li> <li>● Students will be <b>Reflective Learners</b> who are aware of their strengths and weaknesses and can motivate themselves to engage in and improve, their learning.</li> </ul>

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*School of*  
**CHARACTER**

**RESPECT** SELF-DISCIPLINE **COURAGE**  
OPEN-MINDEDNESS **MOTIVATION**  
**RESILIENCE** CONFIDENCE **INTEGRITY**  
COMPASSION **CURIOSITY**

