

Design Technology Year 8 Learning Intentions Spring Term 2 2024-2025

	LESSON
WEEK 22 wc 24 th February	<p>Introduction to the project Explanation of basic principles of Design Technology. How to show shape and form using shading techniques Pupils will complete a worksheet about shape and form in design technology</p>
WEEK 23 wc 3 rd March	<p>Research and materials in design technology. The difference between ferrous metal and non – ferrous metal. Pupils to complete questions in work book related to properties of metals. Introduction to typography and fonts as a theme for the project.</p>
WEEK 24 wc 10 th March	<p>Design brief and Initial ideas. What is a design brief and why do we use them in design technology? Discuss the correct method of producing initial ideas: <ul style="list-style-type: none"> • 3D sketches • Colour • Annotation Pupils to complete 2 initial ideas with accompanying annotation.</p>
WEEK 25 wc 17 th March	<p>Modelling in Technology / using CAD/CAM Why do we use models in Technology? The role of computer modelling and testing. How will CAD/CAM be used to produce the pewter cast? Pupils will complete a practical task using Nets. They will complete a card model at 1:1 scale of their design</p>
WEEK 26 wc 24 th March	<p>Workshop rules / Health and Safety The importance of Health and Safety in the workshop. What kind of accidents could occur in the workshop? Understanding how to use the machines safely - guards, PPE, floor tape, emergency stops, correct clothing and emergency procedures. Workshop rules. Pupils will complete a worksheet about workshop safety and design a safety poster of their own.</p>
WEEK 27 wc 31 st March	<p>Practical Lesson–Cutting tools and techniques Teacher demo on the correct way to use cutting and shaping tools such as saws, drills and files. <ul style="list-style-type: none"> • Correct techniques – how to begin a cut, sawing in a straight line, where to place hands • Common mistakes – using the tool incorrectly, using the wrong tool for the job • Correct methods of drilling – stepping up, work piece holding using hand vices and using correct technical terms. </p>