



Department:	Design and Technology	
Year 8 Course summary:		
<p>The Year 8 Design and Technology course aims to inspire students in developing their independent design skills and understanding of multi-component assemblies. Throughout the year students will build upon the skills developed in Year 7 by taking on more challenging and complex design and manufacturing projects.</p>		
IST Assessments:		
Michaelmas	Lent	Summer
<p>Students will learn about influential product designers, architects and engineers. They will research and study a chosen designer and design their own clock in the style of their chosen designer. Students will develop CAD skills and their confidence with the laser cutter.</p>	<p>Students will learn about design specifications and designing for a functional use. They will develop their sketching and rendering skills. Students will also learn about vacuum forming, CNC routing and the use pocket hole joinery, through the manufacture of their own desk tidy.</p>	
Key vocabulary:		
<p>Pocket hole Render Orthographic Third angle projection Nesting Deciduous Countersunk Vacuum forming Tap and Die Jig Thermosoftening polymers Thermosetting polymers Router Computer Aided Manufacture (CAM) Computer Numerically Controlled (CNC)</p>		