



# SIR GRAHAM BALFOUR SCHOOL



## CURRICULUM OVERVIEW – KEY STAGE 3 DESIGN TECHNOLOGY

In Key Stage 3, Design and Technology is taught in rotation with Computing, Textiles and Food

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	<b>Project- Ball Bearing Game</b> <ul style="list-style-type: none"><li>➤ Identifying and solving design problems</li><li>➤ Health and safety when using specialist equipment<ul style="list-style-type: none"><li>➤ The use of hand tools</li><li>➤ The identification and use of tools</li></ul></li><li>➤ Correct use of pillar drill and orbital sander</li><li>➤ Graphic design and the use of CAD</li><li>➤ Knowing the sources and properties of Timbers<ul style="list-style-type: none"><li>➤ Communication of design ideas</li></ul></li><li>➤ Evaluation of a completed product</li></ul>					
Year 8	<b>Project- Hanging Mobile</b> <ul style="list-style-type: none"><li>➤ Using research to identify user needs</li><li>➤ Health and safety when using specialist equipment<ul style="list-style-type: none"><li>➤ Types of motion and linking motion paths</li><li>➤ Other hand tools explained and used.</li></ul></li><li>➤ Developing understanding of timber properties</li><li>➤ Effects and causes of deforestation and global warming</li><li>➤ Construction methods to create timber products<ul style="list-style-type: none"><li>➤ Further developing effective design ideas</li></ul></li><li>➤ Evaluation of a completed product</li></ul>					
Year 9	<b>Project – Trinket Box</b> <ul style="list-style-type: none"><li>➤ Investigating the work of others and design influences<ul style="list-style-type: none"><li>➤ Understanding the use of mechanical levers</li></ul></li><li>➤ Identification of wood joints and selection for best use.<ul style="list-style-type: none"><li>➤ Using Cad to apply designs to work</li><li>➤ Energy generation sources</li><li>➤ Forces that act on materials</li></ul></li><li>➤ Further hand tools introduced and used</li><li>➤ Health and safety when using specialist equipment<ul style="list-style-type: none"><li>➤ Planning the construction of a product</li><li>➤ Analysing and evaluating products</li></ul></li></ul>					

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✓ Learning, working, and succeeding together