



SIR GRAHAM BALFOUR SCHOOL

CURRICULUM OVERVIEW – KEY STAGE 4 DESIGN TECHNOLOGY



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	<p>Mini Design project: Mechanical models</p> <p>Core technical Principles:</p> <ul style="list-style-type: none">➤ Mechanical devices➤ Revision and practise of graphical drawing <p>Designing and Making principles</p> <ul style="list-style-type: none">➤ Anthropometrics and ergonomic design considerations➤ Marking out tools and processes➤ Material management	<p>Mini Design Project: Foot stool - Changeable</p> <p>Timber based material specialism</p> <ul style="list-style-type: none">➤ Sources origins and properties of timber➤ Working with timber-based materials➤ Manufacturing processes➤ Treatments and finishes	<p>Core technical principles</p> <ul style="list-style-type: none">➤ Group design project➤ The wider social and environmental impact of products➤ Renewable and non-renewable energy generation➤ PPE's revision and exam techniques.	<p>Core technical principles</p> <ul style="list-style-type: none">➤ Sustainability in design➤ People culture and society➤ Production techniques	<p>Designing and making principles</p> <ul style="list-style-type: none">➤ Design strategies➤ Tolerances and allowances➤ Material management cont'd➤ Other non-specialist material commercial Processes➤ Other materials surface treatments and finishes <p>Lamp Project</p>	<p>PPE's revision and exam techniques.</p> <p>Core Knowledge:</p> <ul style="list-style-type: none">➤ Systems approach to designing <p>Students will begin their Non-Exam Assessment project</p>
Year 11	<p>Completion of non-exam assessment:</p> <ul style="list-style-type: none">➤ Identifying and investigating design possibilities➤ Brief and specification➤ Generating design ideas➤ Development of design ideas➤ Creating a manufacturing specification	<p>Completion of non-exam assessment:</p> <ul style="list-style-type: none">➤ PPE preparation➤ Analysing and evaluating Realising design ideas	<p>Completion of non-exam assessment:</p> <ul style="list-style-type: none">➤ Realising Design ideas (making major product)➤ Problem solving➤ Evaluation of practical work and Modifying designs	<p>Pre public exam preparation:</p> <ul style="list-style-type: none">➤ Follow up gaps in knowledge from PPE.➤ Final Summer exam revision	<p>Consolidation of learning and focus on revision</p>	