

**(A)UTHENTIC**

**(S)ACRED**

**(P)ASSIONATE**

**(I)SPIRATIONAL**

**(R)ESILIENT**

**(E)MPATHETIC**

**Y11 Design & Technology**

Advent 1 NEA live	Advent 2 NEA live	Review of learning DIRT & summative  Y11 Mock 2-hour D&T Paper Summative assessment of sections B,C,D and E	Lent 1 NEA live	Lent 2 Recall & Revision	Review of learning DIRT & summative  Summative assessment of section F and submission of NEA	Pentecost 1 Recall & Revision	Pentecost 2 Recall & Revision	Review of learning DIRT & summative  Exam paper practise Final Design & Technology GCSE paper
<p><b>Unit intent:</b></p> <p><b>NEA</b></p> <p>Section B and C will be completed during this half term</p> <p>Section C: 20 marks</p> <ul style="list-style-type: none"> <li>Generating ideas</li> <li>Developing ideas using CAD</li> </ul> <p>Section B: 10 marks</p> <ul style="list-style-type: none"> <li>Writing a detailed design brief and specification</li> </ul> <p><b>Theory</b></p> <p><i>One lesson per fortnight of theory retrieval</i></p> <p>Ecological and social footprint, sources and origins of materials, selection of materials or components, forces and stresses.</p>	<p><b>Unit intent:</b></p> <p><b>NEA</b></p> <p>Section D and E will be completed during this half term</p> <p>Section D: 20 marks</p> <ul style="list-style-type: none"> <li>Developing ideas</li> <li>Testing ideas</li> <li>Producing a manufacturing specification</li> </ul> <p>Section E: 20 marks</p> <ul style="list-style-type: none"> <li>Manufacturing a commercially viable outcome</li> <li>Prototype development,</li> <li>Selection of materials and components,</li> <li>Tolerances,</li> <li>Material management, Specialist tools and equipment,</li> <li>Specialist techniques and processes</li> </ul> <p><b>Theory</b></p> <p><i>One lesson per fortnight of theory retrieval</i></p>	<p><b>Disciplinary knowledge</b></p> <p>Core technical principles                      Designing and making principles                      Specialist technical principles</p> <p><b>CST</b></p> <p>The Common Good                      Option for the Poor Peace                      Creation and Environment                      The Dignity of Work and Participation</p> <p><b>Careers</b></p> <p>Research into the different careers within the environmental field</p>	<p><b>Unit intent:</b></p> <p><b>NEA</b></p> <p>Section F: 20 marks</p> <ul style="list-style-type: none"> <li>Analysing and testing of the prototype</li> <li>Market testing</li> <li>Prototype modifications</li> </ul> <p><b>Theory</b></p> <p><i>One lesson per fortnight of theory retrieval</i></p> <p>Scales of production, Specialist techniques and processes, Surface treatments and finishes</p>	<p><b>Unit intent:</b></p> <p><i>All lessons dedicated to recall and revision of the core technical principles section of the exam</i></p> <p>Core technical principles:</p> <p>New and emerging technologies, Energy generation and storage, Developments in new materials, Systems approach to designing, Mechanical devices, Materials and their working properties</p>	<p><b>Disciplinary knowledge</b></p> <p>Core technical principles                      Designing and making principles                      Specialist technical principles</p> <p><b>CST</b></p> <p>Dignity Solidarity                      The Common Good                      Option for the Poor                      Peace Creation and Environment                      The Dignity of Work and Participation</p> <p><b>Careers</b></p> <p>Video on quality control and product testing</p>	<p><b>Unit intent:</b></p> <p><i>All lessons dedicated to recall and revision of the designing and making principles of the exam</i></p> <p>Designing and making principles:</p> <p>Investigation, primary and secondary data, Environmental, social and economic challenge, The work of others, Design strategies, Communication of design ideas, Prototype development, Selection of materials and components, Tolerances, Material management, Specialist tools and equipment, Specialist techniques and processes.</p>	<p><b>Unit intent:</b></p> <p><i>All lessons dedicated to the specialist technical principles of the exam</i></p> <p>Specialist technical principles:</p> <p>Selection of materials or components, Forces and stresses, Ecological and social footprint, Sources and origins of materials, Using and working with materials, Stock forms, types and sizes, Scales of production, Specialist techniques and processes, Surface treatments and finishes.</p>	<p><b>Disciplinary knowledge</b></p> <p>Core technical principles                      Designing and making principles                      Specialist technical principles</p> <p><b>CST</b></p> <p>Dignity Solidarity                      The Common Good                      Option for the Poor                      Peace Creation and Environment                      The Dignity of Work and Participation</p> <p><b>Careers</b></p> <p>Discussion on where the careers paths that their chosen further education might lead them to.</p>