

| ASPIRE #BeMore | (A)UTHENTIC | (S)ACRED | (P)ASSIONATE | (I)SPIRATIONAL | (R)ESILIENT | (E)MPATHETIC | | |
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| Y11 Design & Technology | | | | | | | | |
| Advent 1 | Advent 2 | DIRT & summative | Lent 1 | Lent 2 | DIRT & summative | Pentecost 1 | Pentecost 2 | Review of learning |
| NEA live | NEA live | Y11 Mock 2-hour D&T Paper Summative assessment of sections B,C,D and E | NEA live | Recall & Revision | Summative assessment of section F and submission of NEA | Recall & Revision | Recall & Revision | Exam paper practise Final Design & Technology GCSE paper |
| Unit intent: NEA Section B and C will be completed during this half term Section C: 20 marks • Generating ideas • Developing ideas using CAD Section B: 10 marks • Writing a detailed design brief and specification Theory <i>One lesson per fortnight of theory retrieval</i> Ecological and social footprint, sources and origins of materials, selection of materials or components, forces and stresses. | Unit intent: NEA Section D and E will be completed this half term Section D: 20 marks • Developing ideas • Testing ideas • Producing a manufacturing specification Section E: 20 marks • Manufacturing a commercially viable outcome • Prototype development, • Selection of materials and components, • Tolerances, • Material management, Specialist tools and equipment, • Specialist techniques and processes Theory Retrieval <i>One lesson per fortnight</i> Stock forms, types and sizes, Scales of production, Specialist techniques and processes, surface treatments and finishes. | Disciplinary knowledge Core technical principles Designing and making principles Specialist technical principles CST The Common Good Option for the Poor Peace Creation and Environment The Dignity of Work and Participation Careers Research into the different careers within the environmental field | Unit intent: NEA Section F: 20 marks • Analysing and testing of the prototype • Market testing • Prototype modifications Theory <i>One lesson per fortnight of theory retrieval</i> Scales of production, Specialist techniques and processes, Surface treatments and finishes | Unit intent: <i>All lessons dedicated to recall and revision of the core technical principles section of the exam</i> Core technical principles: New and emerging technologies, Energy generation and storage, Developments in new materials, Systems approach to designing, Mechanical devices, Materials and their working properties | Disciplinary knowledge Core technical principles Designing and making principles Specialist technical principles CST Dignity Solidarity The Common Good Option for the Poor Peace Creation and Environment The Dignity of Work and Participation Careers Video on quality control and product testing | Unit intent: <i>All lessons dedicated to recall and revision of the designing and making principles of the exam</i> Designing and making principles: 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. | Unit intent: <i>All lessons dedicated to the specialist technical principles of the exam</i> Specialist technical principles: 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. | Disciplinary knowledge Core technical principles Designing and making principles Specialist technical principles CST Dignity Solidarity The Common Good Option for the Poor Peace Creation and Environment The Dignity of Work and Participation Careers Discussion on where the careers paths that their chosen further education might lead them to. |