Year 11 Curriculum Implementation: Design and Technology

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge & Skills	• Developing a design brief and Specification • Generating and developing design ideas • In depth theory – specialist area	• Generating and developing design ideas • Planning production	• Manufacturing a prototype	• Analysing and evaluating design decisions and prototype	• Revision skills	• Revision skills
Links to prior learning	• Y10 Curriculum – theory • Y10 practical lessons- product designing for a client	• Y10 Curriculum – theory • Y10 practical lessons- product designing for a client	• Y10 practical lessons- product designing for a client	• Y10 Curriculum – theory • Y10 practical lessons- product designing for a client	• Y10 Curriculum - theory	• Y10 Curriculum - theory
Assessment	• Assessment theory • NEA	• Mock written exam • NEA	• NEA	• NEA	•	• GCSE written exam
Home learning	• NEA up to date • Revision for mock	• NEA up to date • Revision for mock	• Revision topics for written exam	• NEA up to date • Revision for written exam	• Revision tasks	• Revision
Cultural Capital and extra-curricular opportunities	• Solve real-world problems and design for user needs • Develop practical, creative, and technical skills with materials and tools • Understand sustainability, ethics, and responsible use of resources • Build resilience, patience, and confidence through completing a project		• Solve real-world problems and design for user needs • Develop practical, creative, and technical skills with materials and tools • Understand sustainability, ethics, and responsible use of resources • Build resilience, patience, and confidence through completing a project			
Literacy	• Using Tier 3 vocabulary in writing • Being concise	• Reading and condensing information • Reading recipes	• Using Tier 3 vocabulary in report writing	• Using accurate sensory vocabulary	• Creating revision resources from notes and revision materials	• Selecting relevant information in long exam data questions
Numeracy	• Measurement & Accuracy: Measure, mark out, and cut materials precisely • Scaling & Proportion: Apply ratios, scale drawings, and dimensions in designs and CAD models • Data & Calculations: Calculate material quantities, tolerances, and production requirements • Budgeting & Planning: Use numbers to plan costs, time, and efficient workflow • Evaluation: Analyse numerical data from testing and prototype results to refine products		• Measurement & Accuracy: Measure, mark out, and cut materials precisely • Scaling & Proportion: Apply ratios, scale drawings, and dimensions in designs and CAD models • Data & Calculations: Calculate material quantities, tolerances, and production requirements • Budgeting & Planning: Use numbers to plan costs, time, and efficient workflow • Evaluation: Analyse numerical data from testing and prototype results to refine products		• Maths questions in revision and recall	• Maths questions 15% of written paper
Careers Information, Education, Advice and Guidance (CEIAG)	• Designer, engineer, or product developer • Technician, craftsperson, or maker • Sustainability, business, or industry specialist • Teacher, communicator, or client consultant		• Designer, engineer, or product developer • Technician, craftsperson, or maker • Sustainability, business, or industry specialist • Teacher, communicator, or client consultant			
Spirituality	• Creativity & Innovation: Appreciate human creativity, problem-solving, and ingenuity as reflections of God-given gifts • Purposeful Work: Value patience, skill, care, and perseverance in designing and making functional products • Stewardship & Responsibility: Reflect on ethical use of materials, sustainability, and responsible resource management • Connection to Others & Society: Consider the impact of design on people, society, and the environment • Reflection & Personal Growth: Encourage self-reflection, evaluation, and thoughtful decision-making throughout projects					
How can parents support the curriculum?	• Ensure home learning tasks are completed	• Ensure home learning tasks are completed	• Ensure home learning tasks are completed	• Ensure home learning tasks are completed	• Quizzing from flashcards and mind maps • Encouraging use of revision timetable	• Encouraging and supporting during exams