TECHNOLOGY Year 10 Curriculum Overview

What is the Year 10 Technology curriculum aiming to achieve?		
What do we want our Year 10 Technologists to be like?	How are we building on prior learning?	How can parents/carers support their child's learning?
• Creative – producing innovative outcomes • Accurate – focused on high standards • Resilient – in pursuing high standards • Energetic – driven to produce high quality outcomes • Applying - knowledge to different contexts	• Progressive curriculum - reference being made to prior learning including materials, processes and environmental factors • CAD/CAM increasingly more complex geometry and machining including routing • Learning takes the next step forward	• Visit centres promoting discussion such as design museums • Discuss feedback provided throughout the course • Refer back to targets set in reports • Act as a client for their NEA • Look at how products in the home are constructed and materials used

How are we organising the Year 10 Technology curriculum?						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Sum. 1	Summer 2
Topics	Hanging basket bracket Trowel and clothes hook		Promotional pop up products	Desk tidy including wood joints	Mock prep.	Year 10 PPE Designer study (AQA spec.) NEA
Threshold Concepts	Metals and alloys sources, origin, extraction and refining		Sustainability and the Environment Paper and Board	Sources of timber, working with specialist tools & equipment	Knowledge and understanding	AQA – Core, Specialist, Designing & Making, Maths Identifying, investigating, generating a solution to a true need
Skills	Cut, drill, turn, brazing, casting, dip coating and galvanising		Stock forms/types and sizes	Templates, jigs, surface treatments and finishes	Applying K & U	Participate confidently in a technological world. Work creatively when designing and making
Enrichment within the curriculum	Smart box - Resource boxes providing students with hands on access to both raw and product forms, applying appreciation and understanding in both NEA and examination. Six R's box - Resource boxes encouraging students to consider sustainable principles with hands on access to a wide range of products used in everyday life. Home user licences available for CAD software enabling students to continue developing key skills.					
Cross curricular links	Mathematics – calculating values (converting units, percentages, scales, areas of shapes i.e. circles, and volumes) Physics – understanding properties of materials, energy generation and storage, smart materials Business Studies - industry and enterprise, investigation, primary and secondary data Geography - sustainability and the environment Art - the work of others					
Extra-curricular opportunities	Opportunity to be a peer mentors supporting students in Year 7 – 9 participating in the EEP Robotics Challenge Promotion of EDT events including CREST awards. Advertising of local events of interest such as those held at the Gordon Russell Design Museum.					

What are the intended outcomes of the Year 10 Technology curriculum?						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Opportunities to show progress (Assessments)	Assessment of product (AQA criteria), cwk. & hwk. questions, inc. SENECA	Assessment of product (AQA criteria), cwk. & hwk. questions, inc. SENECA	Client review, assessment of product (AQA criteria), cwk. & hwk. questions	Assessment of product (AQA criteria), cwk. & hwk. questions, inc. SENECA	GCSEPod trial examination questions	Year 10 Mock examination, NEA assessment section A & B (AQA criteria)
Impact on personal development (SMSC)	Students will show this though their use of imagination and creativity in their learning, their willingness to reflect on their experiences, interest in investigating and offering reasoned views about moral and ethical issues and ability to understand and appreciate the viewpoints of others on these issues.					
Preparation for the next stage of education	Students will have developed a secure platform from which to confidently progress from in their NEA, adopting an iterative approach to designing drawing upon their understanding of design strategies and material properties and construction techniques. Students will have studied two specialist (section B AQA) materials in readiness for their GCSE examination paper.					