

Year 7

	Term 1a	Term 1b	Term 2a	Term 2b	Term 3a	Term 3b
Key Concepts	<p>Students work in 5 material areas: Resistant Materials, Textiles, Food, Product Design and Graphics. They will cover the following National Key Concepts:</p> <p>Designing and making</p> <ul style="list-style-type: none"> • Aesthetic, environmental, economic and social dimensions and impacts on the world. • Knowledge of materials and produce solutions • Products have an impact on living • How products have a past, present and future <p>Cultural understanding</p> <ul style="list-style-type: none"> • How products contribute to lifestyle and choice <p>Creativity</p> <ul style="list-style-type: none"> • Links between good design, technical knowledge, products and processes • Communicating ideas • Exploring ideas, technologies, techniques and materials <p>Critical Evaluation</p> <ul style="list-style-type: none"> • Analysing existing products • Exploring the impact of ideas, design decisions and technological advances 					
Key Processes	<ul style="list-style-type: none"> • Generate, develop, model and communicate ideas • Respond creatively to briefs, develop proposals and produce specifications • Plan and organise activities • Evaluate appropriate techniques • Critically evaluate and modify ideas 					
Curriculum Opportunities	<ul style="list-style-type: none"> • Analyse products • Design and make assignments • Use appropriate ICT software • Make links with other subject areas • Food - basic food skills • Product Design - CAD/CAM • Packaging Design • Textiles-Placemat/insulation/containers • Graphics-Techniques • Resistant Materials-Natural shapes (Timber) • Build upon skills <ul style="list-style-type: none"> ○ Health and safety ○ Designing and Making ○ Developing ICT skills ○ Literacy and numeracy skill ○ Graphical Methods ○ Basic Food skills ○ Combining materials ○ Basic measurements ○ Subject specific key words ○ Basic problem solving 					

Year 8

	Term 1a	Term 1b	Term 2a	Term 2b	Term 3a	Term 3b
Key Concepts	Students study Resistant Materials, Textiles, Food, Graphics and Systems & Control.					
	They will cover the following National Curriculum key concepts in addition to points covered in year 7.					
	<p>Designing & Making</p> <ul style="list-style-type: none"> • Technical impacts on the world. • Apply production processes to design products • Understand systems <p>Creativity</p> <ul style="list-style-type: none"> • Making links with existing solutions <p>Critical Evaluation</p> <ul style="list-style-type: none"> • Analyse existing solutions 					
Key Processes	<p>During this key stage students will</p> <ul style="list-style-type: none"> • Analyse products • Undertake design & make assignments • Use appropriate ICT software • Make links with other subject areas 					
Curriculum Opportunities	<ul style="list-style-type: none"> • Food - Healthy eating • Textiles – Environmental bag design • Resistant Materials – CAD/CAM Puzzle game • Systems & Control – Flowol 3 • Graphics – Pop-up card • Knowledge of materials and production processes. • Assemble components to achieve functional results. • Environmental issues. • Consolidation of graphic skills. • Healthy eating/nutrition and sensory analysis. • CAD/CAM Design and manufacture. • Practical applications of computer control systems in systems and control 					

Year 9

	Term 1a	Term 1b	Term 2a	Term 2b	Term 3a	Term 3b
Key Concepts	Students will cover the key concepts outlined in years 7 and 8					
Key Processes	Students will build upon the key processes from years 7 and 8					
Curriculum Opportunities	<ul style="list-style-type: none"> • Exploring cultural understanding and how it contributes to lifestyle and customer choices • Designing with environmental, technical, ethical and social impacts on the world. • Developing systems and control into more complex systems including feedback. • Knowledge of materials and production processes to design and manufacture practical products that are fit for purpose. • Model and communicate ideas in a range of different ways. 					