

Curriculum Content Summary

SUBJECT: Technology/ Product Design

	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Term One	<p>Desk Tidy project Year 7 Students will gain knowledge and practical skills by designing and making an animal themed desk tidy. Students are encouraged to be creative therefore they will need to design a product like no other.</p> <p>Structure of course Research Designing Planning Templates Wood & Plastic theory Design Drawing Skills</p>	<p>Trophy Project</p> <p>Health and Safety Introduction</p> <p>Research Product Analysis</p> <p>Specification Creating Ideas.</p> <p>Working with metals</p> <p>Theory of metals</p> <p>Drawing Skills</p>	<p>Research Designers project. Will be expected to transform research studies into unique designs that combine a chosen designer's style and the market needs of Alessi.</p> <p>Designer Research (Architecture/Product/Fashion) Analysis of Existing Products Specification Designing for a client Theory Exam questions: Designers and Movements</p>	<p>Metal</p> <p>Pewter Casting Project Jewellery/Keyring Coursework Practice Research Target Market Specification Design CAD/CAM Metal Exam Theory</p>	<p>AQA GCSE Coursework Unit 2 Design and Making Practice</p> <p>Criterion 1 – Investigating the design context Research</p> <p>Criterion 2 – Developing Design proposals</p> <p>Theory – Materials and Components</p> <p>Classification and working properties Paper/card Timber based materials Ferrous and non-ferrous metals.</p>		

Term Two	<p>Marking out Cutting Filing Drilling holes Wood & Plastic theory Design Drawing Skills</p>	<p>Developing ideas, drawing skills, producing a cutting list, working with metals continued.</p> <p>Working with woods practical and theory.</p>	<p>Research Designers Project</p> <p>Development Modelling ideas Prototype Evaluation Theory Exam questions: Designers and Movements</p>	<p>Metal: Pewter Casting Continued.. CAD/CAM Casting Finish Evaluation Metal Theory Exam questions</p>	<p>Criterion 2 – Developing the design proposals – continued.</p> <p>Criterion 3 – Making – Personal product</p> <p>Theory – Materials and Components continued. Plastics Ceramics Electronic and Control components Manipulating and Combining Materials New Materials</p>		
Term Three	<p>Heat Process – Vacuum Forming Finishing techniques Wood & Plastic theory Design Drawing Skills</p>	<p>Brazing, dip coating, finishing, evaluating working with wood and continue with drawing skills</p>	<p>Wood Joints Skilled Focus Tasks: The marking out, cutting, finishing of a lap joint, finger joint and dovetail joint. Timber Based Exam theory.</p>	<p>Wood Joints Skilled Focus Tasks: The marking out, cutting, finishing of a lap joint, finger joint and dovetail joint. Timber Based Exam theory.</p>	<p>Unit 3 – Making – <i>Personal product continued</i></p> <p>Unit 4 – Testing and Evaluating</p> <p><i>Theory – Design and Market Influence</i></p> <p><i>Evolution of Product</i></p>		

					<i>Design Product development Communication and representation Design Methodology Packaging Product Marketing</i>		
Term Four	Desk Tidy project Year 7 Students will gain knowledge and practical skills by designing and making an animal themed desk tidy. Students are encouraged to be creative therefore they will need to design a product like no other. Structure of course Research Designing Planning Templates Wood & Plastic theory Design Drawing Skills	Trophy Project Health and Safety Introduction Research Product Analysis Specification Creating Ideas. Working with metals Theory of metals Drawing Skills	Paper & Card Packaging Project Marketing/Advertising leaflet material. Paper/Card Exam theory	Plastics: Vacuum Formed casing of electronic product. Research Design CAD/CAM Manufacture: Vacuum Forming Finishes: design and use the vinyl cutter for final finishes. Plastics exam theory. Past Paper assessment	Theory – Design and Market Influence (continued) <i>Human Factors Safety Quality Ethical, Environmental and Sustainability Consumer Issues</i>		

<p>Term Five</p>	<p>Marking out Cutting Filing Drilling holes Wood & Plastic theory Design Drawing Skills</p>	<p>Developing ideas, drawing skills, producing a cutting list, working with metals continued.</p> <p>Working with woods practical and theory.</p>	<p>Metal</p> <p>Pewter Casting Project Jewellery/Keyring Coursework Practice Research Target Market Specification Design CAD/CAM</p>	<p>AQA Product Design GCSE Unit 2: Designing and Making Practice</p> <p>Students begin their Unit 2 Coursework alongside subject theory in preparation for the exam.</p> <p>Selection made of Controlled Assessment Task Structure of Course:</p> <p>Investigation of the design context Development of design proposals (including modelling)</p>	<p>Theory – Processes and Manufacture</p> <p>Product Manufacture Methods of Production Manufacturing systems Use of ICT</p>		
<p>Term Six</p>	<p>Heat Process – Vacuum Forming Finishing techniques Wood & Plastic theory Design Drawing Skills</p>	<p>Brazing, dip coating, finishing, evaluating working with wood and continue with drawing skills</p>	<p>Pewter Casting Continued.. CAD/CAM Casting Finish Evaluation Metal Theory Exam questions</p>	<p>Continuing Controlled Assessment : Unit 2</p> <p>Investigation of the design context Development of design proposals (including modelling) Making</p>	<p>Revision</p>		