

Fareham Academy Design & Technology Overview – Year 8

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic(s)	Mobile phone amplifier	Mobile phone amplifier	Polymers: the product	Polymers: the product	Polymers: the packaging	Polymers: the packaging
Topic Objectives	<p>Compare and contrast anthropometrics and ergonomics.</p> <p>Explore traditional wood joining techniques.</p>	<p>Operation of wood tools and equipment to create wood joints.</p> <p>Apply Health and Safety routines.</p>	<p>Investigate polymers and the manufacturing methods.</p> <p>Investigation of environmental factors regarding polymers.</p>	<p>Define and select Target user.</p> <p>Explore a variety of design idea generation techniques to avoid design fixation.</p> <p>Create a product.</p>	<p>Investigate packaging nets.</p> <p>Explore papers and boards.</p>	<p>Apply Vacuum Former techniques.</p> <p>Create packaging for a marketable product.</p>
Acquired Knowledge/Skills	<p>Investigation and research skills revisited.</p> <p>Communication styles revisited and enhanced.</p>	<p>Cutting, wasting, shaping and finishing techniques.</p> <p>How to create a variety of wood joints.</p>	<p>Gain a knowledge of polymer families.</p> <p>Research polymer impacts relating to global, country and LOCAL factors.</p>	<p>Design for a specific target market/user.</p> <p>Generate a variety of design ideas.</p> <p>Manufacture jewellery.</p>	<p>Compare and contrast papers and boards.</p> <p>Apply measurement techniques for net creation.</p> <p>Create packaging for a bespoke product.</p>	<p>Investigate considerations for moulding using vacuum forming.</p> <p>Profile cutting of polymers.</p> <p>Product assembly.</p>
Assessments	<p>Formative assessment:</p> <ul style="list-style-type: none"> - Investigate - Design - Make - Evaluate 	<p>End of unit assessment:</p> <p>Mobile Phone Amplifier product outcome</p>	<p>Formative assessment:</p> <ul style="list-style-type: none"> - Investigate - Design - Make - Evaluate 	<p>Formative assessment:</p> <ul style="list-style-type: none"> - Investigate - Design - Make - Evaluate 	<p>Formative assessment:</p> <ul style="list-style-type: none"> - Investigate - Design - Make - Evaluate 	<p>Summative assessment:</p> <p>Polymer outcome</p>