

Curriculum Overview: Year 10 Design & Technology

Summer 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1
<p>Topic Out of the box</p> <p><i>Working with specialist materials & producing technical drawings and specifications</i></p>	<p>Topic Polymers & Papers (Core DT)</p> <p><i>Experimenting with material properties Sustainability, eco & social issues. Using CAD/CAM</i></p>	<p>Topic Designer Challenge</p> <p><i>Responding to a client/ user need. Model making, iterative design. Responding to the work of others. Technical drawing & CAD.</i></p>	<p>Topic Mechanisms (Core DT)</p> <p><i>Experimenting with material properties, industry & enterprise, electronic systems, and devices</i></p>	<p>Topic Mock NEA</p> <p><i>Investigating a context, responding to a client, using design strategies to develop ideas</i></p>	<p>Topic Mock NEA</p> <p><i>Refining ideas, experimentations, prototyping intentions. Evaluations.</i></p>
<p>Links to prior learning Working with timbers & fabrics.</p> <p>Stretch and Challenge Enquiry What technical information would manufactures need to develop a prototype?</p>	<p>Links to prior learning Building skills with materials and software. Environmental issues</p> <p>Stretch and Challenge Enquiry How do products impact the social, environment and economy?</p>	<p>Links to prior learning Developing ideas with more independence, problem solving. Analysing the work of others.</p> <p>Stretch and Challenge Enquiry How have other designers responded to user needs?</p>	<p>Links to prior learning Building skills with materials. Deepening understanding.</p> <p>Stretch and Challenge Enquiry How does industry effect our environment, economy, and social issues?</p>	<p>Links to prior learning Responding to investigations whilst developing your ideas.</p> <p>Stretch and Challenge Enquiry What information do I need to investigate to develop my ideas?</p>	<p>Links to prior learning Refining ideas and creating an outcome.</p> <p>Stretch and Challenge Enquiry How could my design intentions be produced in mass production?</p>
Equipment Needed		Wider Reading		Family activities	
<p>Paper Pens Rulers Pencils Access to the internet</p>		<p>https://www.pinterest.co.uk/ https://www.technologystudent.com/index.htm https://www.bbc.co.uk/bitesize/examspecs/zby2bdm</p>		<p>Visit Derby Silk Mill Museum.</p>	

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<p>Topic Mock Exam & NEA – section A</p> <p><i>Investigating and researching into a chosen context.</i></p>	<p>Topic NEA – Section B, C, D & Core DT</p> <p><i>Producing a brief & specification. Using design strategies to develop ideas.</i></p>	<p>Topic NEA – section D & E & Mock Exam</p> <p><i>Refining ideas. Realising design intentions</i></p>	<p>Topic NEA – Section E & F & Core DT</p> <p><i>Realising design intentions. Evaluations</i></p>	<p>Topic Exam Revision</p> <p><i>Reviewing and refining previous units.</i></p>	<p>Topic Exam revision Final exam</p> <p><i>Reviewing and refining previous units.</i></p>
<p>Links to prior learning Using analytical skills to explore a context</p> <p>Stretch and Challenge Enquiry What social, eco or environmental issues surround my context?</p>	<p>Links to prior learning Develop and exploring your own ideas.</p> <p>Stretch and Challenge Enquiry Develop 2D drawings using 3D techniques including CAD</p>	<p>Links to prior learning Refining and developing outcome/s based on project journey.</p> <p>Stretch and Challenge Enquiry Create an independent piece using materials. What quality control must you consider?</p>	<p>Links to prior learning Developing outcome/s based on project journey. Analysing and evaluating outcomes.</p> <p>Stretch and Challenge Enquiry How could my outcome be modified and improved?</p>	<p>Links to prior learning Deepening understanding and improving skills.</p> <p>Stretch and Challenge Enquiry How can I improve my response to mid-high-level questions?</p>	<p>Links to prior learning Deepening understanding and improving skills.</p> <p>Stretch and Challenge Enquiry How can I improve my response to mid-high-level questions?</p>
Equipment Needed		Wider Reading		Family activities	
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