

# Curriculum plan: D&T

"Design is not just what it looks like and feels like. Design is how it works."

- Steve jobs, co-founder of apple, inc.

"There are three responses to a piece of design - yes, no and WOW!  
Wow is the one to aim for." - Milton Glasser, Designer of I ♥ NY icon.

## Intent

At Woodhouse Academy Design & Technology is taught in our specialist design environment. Here students get to experience hands on practical projects, enabling them to utilise our full range of tools and machinery to complement their learning. Our design and technology curriculum is designed to develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.

# ENRICHMENT IN D&T

Sharing our passion and deep subject knowledge equips our students with high quality learning experiences which will inspire, ensure outstanding progress and provide them with a range of skills to enable them to be effective participators in society.

We have links with other establishments that our students may experience; including 'Lego' at Newcastle College or using a laser cutter at Newcastle Under Lyme school. In KS3 we also offer the opportunity to compete in a robot building competition facilitated by First Tech UK.



# y5 Curriculum plan: D&T

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5	Chocolate Wrapper		Key Tag		Rolling Board Game	
	<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Introduction to subject</li> <li>• Designing with fonts.</li> <li>• Accurate cutting</li> <li>• Testing &amp; Evaluating</li> </ul>		<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Using plastics</li> <li>• Design challenge</li> <li>• Use of cutting tools</li> <li>• Smoothing &amp; finishing techniques</li> </ul>		<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Design to solve a problem</li> <li>• Creation of wood joints</li> <li>• Joining techniques</li> <li>• Decoration &amp; finishing</li> <li>• Testing</li> <li>• Peer &amp; self evaluation</li> </ul>	
						
<p>For a more detailed breakdown of our D&amp;T curriculum, please see our curriculum overviews.</p>						

# y6 Curriculum plan: D&T

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 6	Mini Light		Acrylic Techno stand		Cam Toy	
	<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Problem solving</li> <li>• Electronic circuits</li> <li>• Component history</li> <li>• Assembly &amp; Testing</li> <li>• Self &amp; peer evaluation</li> </ul>		<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Plastic knowledge</li> <li>• Shaping techniques</li> <li>• Joining techniques</li> <li>• Polishing &amp; finishing</li> <li>• Testing &amp; Evaluating</li> </ul>		<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Use of cams</li> <li>• Build on woodwork skills</li> <li>• Knowledge of joining materials</li> <li>• Testing &amp; Evaluating</li> </ul>	
						

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# y7 Curriculum plan: D&T

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	Money Box		Pencil Holder		Steady Hand Game	
	<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Problem solving</li> <li>• Graphic drawing</li> <li>• Accurate marking &amp; cutting</li> <li>• Joining techniques</li> <li>• Decoration &amp; finishing techniques</li> <li>• Testing &amp; Evaluating</li> </ul>		<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Design development</li> <li>• Accurate graphical drawing</li> <li>• Product research</li> <li>• Material selection</li> <li>• Using jigs</li> <li>• Wood finishing techniques</li> <li>• Test &amp; Evaluate</li> </ul>		<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Design research &amp; solutions</li> <li>• Complex electronic circuits</li> <li>• Electrical joining techniques</li> <li>• Circuit assembly</li> <li>• Test &amp; Evaluate</li> </ul>	
						

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# y8 Curriculum plan: D&T

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 8	Balancing Ornament			The Clock Project		
	<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Introduction to metalworking</li> <li>• Accurate measuring &amp; marking</li> <li>• Use of Taps &amp; Die</li> <li>• Joining of metals</li> <li>• Polishing &amp; Finishing techniques</li> <li>• Test &amp; Evaluate</li> </ul>			<p>Key elements:</p> <ul style="list-style-type: none"> <li>• Develop a theme</li> <li>• Research &amp; design A3 folder</li> <li>• Graphical techniques &amp; colour rendering</li> <li>• Accurate cutting list</li> <li>• Variety of materials to be used</li> <li>• Test &amp; Evaluate</li> </ul>		
						

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