

## Year 7 DT Curriculum Map

	Autumn Term	Spring Term	Summer Term
Unit Length	15 weeks	12 weeks	13 weeks
Links to the National curriculum/Assessment Objectives	<ul style="list-style-type: none"> <li>• AO1: Identify, investigate &amp; outline design</li> <li>• AO2: Design and make prototypes</li> <li>• AO3: Analyse and evaluate:</li> <li>• AO4: Apply knowledge of technical principles</li> </ul>		
Description of the topic and key learning outcomes (key knowledge and understanding)	<p><b>Module 1: Hot Rod cam car</b>  <b>Theme: Investigate &amp; outline design, design &amp; make using natural woods</b></p> <p>The topics areas covered are:</p> <ol style="list-style-type: none"> <li>1. Identify &amp; investigate research areas</li> <li>2. Materials and their working properties</li> <li>3. Stock forms &amp; sizes, sources &amp; origins</li> <li>4. Identify &amp; understand user needs</li> <li>5. Communicating design ideas (sketching &amp; CAD)</li> <li>6. Using specialist tools, techniques &amp; machinery</li> <li>7. Analyse &amp; evaluate</li> </ol>		
Related Concepts (that are revisited)	The Design process / knowledge of natural woods and their properties / practical skills with an emphasis on marking out skills / use of specialist tools/ use of specialist machinery/ presentation/development of design skills (sketching & CAD)/ material finishes/ evaluation of final product		
Skills being taught	Investigation, outline of design, design & make, analyse & evaluate, apply technical knowledge, technical skills with hand-tools & machinery, CAD/CAM, Team working skills Literacy – keywords, Numeracy – measurement in millimetres and tolerances		
Milestone assessments	<ul style="list-style-type: none"> <li>• AO1: Identify, investigate &amp; outline design</li> </ul>		

	• AO2: Design and make prototypes		
Wider reading	<a href="http://www.technologystudent.com">www.technologystudent.com</a> <a href="http://www.design-technology.info/home.htm">www.design-technology.info/home.htm</a> <a href="https://www.bbc.co.uk/bitesize/examspecs/zby2bdm">https://www.bbc.co.uk/bitesize/examspecs/zby2bdm</a>		
Literacy programme	<ul style="list-style-type: none"> <li>• Increase vocabulary with emphasis on keywords within DT.</li> <li>• Use of exam command words within lessons/questioning to assist/improve responses.</li> <li>• Written tasks responses to be modelled to demonstrate effective writing and also the reviewing of this writing – emphasis on different written tasks within design process.</li> </ul>		
Homework / Independent Learning Tasks	1. Design activity for packaging of their final product (link to maths with net design)	2.	3.
Oak Academy Links			