

<b>My Expected Grade</b>				
<b>Teacher Assessed Grade (circle)</b>				
SBE	BE	E	AE	SAE
<b>Comment:</b>				

Grade		Knowledge	
		Prior	Post
8 - 9	<p>I can...</p> <p>Explain the difference between natural and manufactured boards and provide at least 3 or 4 examples of each</p> <p>Recognise and identify numerous timber joining methods, demonstrating full understanding of their applications</p> <p>Define what thermoplastics are using appropriate language to include: thermosetting and thermoforming</p> <p>Recognise a multiple natural timbers from the two sub groups and correctly identify at least 5+ timber types from each category (hardwoods &amp; softwoods)</p> <p>Explain, identify and examine a range of polymer processes accurately, making links to industrial processes</p> <p>Annotate my research in detail; making links to materials properties and their characteristics</p> <p>Carry out research that is analysed and evaluated effectively in order to inform my manufacturing decisions</p> <p>Evidence my deep understanding of material properties and technical principles via the production of high quality; accurate and highly skilled practical work</p>		
6 -7	<p>I can...</p> <p>Explain the difference between natural and manufactured boards and give at least one example of each</p> <p>Identify a range of timber joining methods, explaining the advantages and disadvantages of each type</p> <p>Define the terms thermoforming,; thermoplastic and thermosetting using a range of appropriate key words</p> <p>Recognise a range of natural timbers from the two sub groups and correctly identify at least 3 timber types from each category (hardwoods &amp; softwoods)</p> <p>Explain and identify a range of polymer processes used to thermoform plastics</p> <p>Explain what a jig is used for and identify specific manufacturing processes where jigs are used</p> <p>Respond effectively to research and apply technical knowledge o my practical work, evidencing knowledge and understanding of material properties</p> <p>Use annotation skills in order to communicate research clearly</p> <p>Carry out effective research and use this to develop and inform my manufacturing decisions</p> <p>Evidence my practical knowledge and ability via the production of accurate and high quality practical work</p>		
4 -5	<p>I can...</p> <p>Explain the difference between natural and manufactured boards</p> <p>Identify at least three different types of timber joining methods</p> <p>Recognise the two types of natural timbers, giving at least one example from each group (hardwoods &amp; softwoods)</p> <p>Define the terms thermosetting and thermoforming</p> <p>Explain what a jig is used for</p> <p>Explain at least two different polymer processes</p> <p>Respond to research and apply knowledge gained in my practical work</p> <p>Use annotation skills by adding notes to explain my research</p> <p>Research within the topic and provide evidence of this</p> <p>Evidence my practical knowledge by demonstrating at least some degree of skill and accuracy to my work</p>		

# Practical Skills Board

Week	Content	Completed?	
		Y / N	EFFORT
1&2	<p>Lesson 1</p> <ul style="list-style-type: none"> <li>Introduction to skills board and relevance of practical skill development.</li> <li>Identify &amp; describe the process task: AQA Command Words intro</li> <li>Groups identified for hm/wrk task</li> </ul> <p><b>Homework1:</b> <i>Research how to carry out your first chosen practical task: present instructions</i></p> <p><b>Challenge:</b> <i>Research includes limitations of chosen process or difficulties which may be faced</i></p> <p><b>Further Challenge:</b> <i>Advantages and disadvantages are explored and analysed</i></p> <p>Lesson 2</p> <ul style="list-style-type: none"> <li>Researching timber types</li> <li>GCSE specification introduction</li> </ul> <p>Lesson 3</p> <ul style="list-style-type: none"> <li>MIB of homework: check peer work for improvements.</li> <li>Practical : students to use own instructions as a guide.</li> </ul> <p><b>Homework 2:</b> <i>Research min of 2 polymer processes: flipped learning task</i></p> <p><b>Challenge:</b> <i>Research includes example products for each process</i></p> <p><b>Further Challenge:</b> <i>Costs of each process are considered and research relating to this is included</i></p> <p>Lesson 4</p> <ul style="list-style-type: none"> <li>MIB of homework</li> <li>Student presentations of homework</li> <li>Different types of polymer</li> <li>Polymer processes—research task</li> </ul> <p>Lesson 5</p> <ul style="list-style-type: none"> <li>Teacher Demo</li> <li>Practical tasks</li> </ul>		
3&4	<p>Lesson 6</p> <ul style="list-style-type: none"> <li>Continue Polymer fact finding tasks</li> <li>Examination Question 1 on polymers</li> </ul> <p>Lesson 7</p> <ul style="list-style-type: none"> <li>Teacher demos</li> <li>Practical Tasks</li> </ul> <p><b>Homework 3:</b> <i>Timber conversion worksheet</i></p> <p><b>Challenge:</b> <i>Identify natural timber types by recognising their leaf type</i></p> <p><b>Further Challenge:</b> <i>Research includes limitations of chosen process or difficulties which may be faced</i></p>		

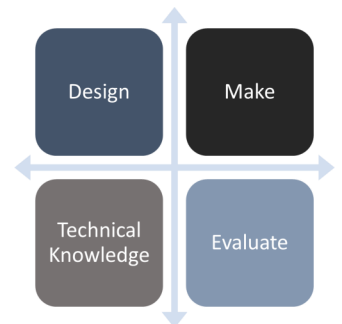


Why are we developing our practical skills?

You are enhancing your skills so that you:

- ◆ Can begin to work more independently in the workshop
- ◆ Can plan your own manufacturing schedules using previous knowledge and experience
- ◆ Are ready for the NEA project

## Challenge!



What areas of the four key concepts for Design & Technology have you worked in during this cycle?

**Circle your response**

# Practical Skills Board

## Student Self Evaluation

Week	Content	Completed?	
		Y / N	EFFORT
3&4 cont	<p>Lesson 9</p> <ul style="list-style-type: none"> <li>Teacher demos</li> <li>Practical Tasks</li> <li>Progress Check</li> </ul> <p><b>Homework 4:</b> Research products made from manufactured board</p> <p><b>Challenge:</b> Material choices are explained and show an understanding of material properties</p> <p><b>Further Challenge:</b> Research shows comparisons to the use of natural timber and demonstrates understanding of quality and cost implications</p> <p>Lesson 10</p> <ul style="list-style-type: none"> <li>MIB of homework: peer review &amp; improve</li> <li>FSC logo</li> <li>Student &amp; teacher demos</li> </ul>		
5&6	<p>Lesson 11</p> <ul style="list-style-type: none"> <li>Teacher recap H&amp;S</li> <li>Practical Continued</li> <li>Test discussion</li> </ul> <p><b>Homework 5:</b> Research products made from natural timbers</p> <p><b>Challenge:</b> Material choices are explained and show an understanding of material properties</p> <p><b>Further Challenge:</b> Research shows an understanding of aesthetic qualities in the use of natural timbers and evidences understanding of this in their own words</p> <p>Lesson 12</p> <ul style="list-style-type: none"> <li>MIB of homework: peer review &amp; improve</li> <li>Google Sketch Up skills—drawing timber joints in 3D</li> </ul> <p>Lesson 13</p> <ul style="list-style-type: none"> <li>Practical recaps and progress: finishing techniques</li> </ul> <p><b>Homework 6:</b> Material properties and their meanings.</p> <p><b>Challenge:</b> Help yourself learn these material properties by creating a physical way to remember them</p> <p><b>Further Challenge:</b> Research how each of these properties can be TEST-ED</p> <p>Lesson 14</p> <ul style="list-style-type: none"> <li>MIB of homework: peer review &amp; improve</li> <li>Final practical</li> <li>Test—revision list</li> </ul> <p>Lesson 15</p>		

WWW

EBI



*Tick when you think you are able to define the meaning of the keyword*

<b>KEYWORDS</b>	Lap joint
Natural timber	Conversion
Line bender	Thermoset
Dowel	Manufactured board
Jig	Former
Polymer	Grain
FSC	
Thermoforming	

## Challenge!

Can you add more keywords you have covered?