



# **TEACHING & LEARNING JOURNAL - EDITION 19**

# Curriculum Focus Group—Journal Entry Ed 2

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As Design and Technology moved to a holistic approach, the course is more demanding as they focus on all material areas as well as product design and manufacture. To ensure that students have a solid foundation at KS3 ready for KS4, there was a complete overhaul of the curriculum. Main changes involved removing the carousel system whereby teachers were less accountable towards the students' progress and redesigning the entire content throughout to ensure there was a clear goal at the end.

Teachers now keep their classes throughout the year and have been up skilled as they have had to develop their subject knowledge and practice new and developing techniques. Teachers collaborated on the curriculum and planned units of work they were most confident and specialised in. This gave the team an ownership of the unit planned and played to their strengths. Furthermore, we agreed on a set standard of content that was compulsory to ensure that knowledge needed at KS4 was starting to embed at KS3. An example of this are the 'Core Principles' of the material groups e.g. knowing the categorisation, properties and example uses of these materials. By giving the students these foundations, it has allowed them understand better the manipulation of material when they are using it in the workshop. They then start to develop the 'specialist technical principles' whilst working with the material and these skills develop in KS4 as they become more confident, prepping them for both the exam and coursework content. Here are some changes to testing and homework that have proven successful over the last year:

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Timber (wood) Groups and Examples: 1. Match the word is the correct definitions (3 marks):	Joining Timber 8. Whatare the joints below called (3 merts)?	Processes of the Timber croups: 15. Give the two characteristics that addy to softwoods (2 matrix)			SECTIONA:	
1. Machithe word to the correct cell/stone (3 mana)			WHOLE	CLASS FEEDBACK	Definitions: Examples:	List 2 properteccharacteristics:
		<ul> <li>They are inexpensive (cheap) as they take a shorter time to grow</li> </ul>		1		List 2 properteconamonence:
Hardwood A conferous tree thatkeeps its leaves in winter.	END	<ul> <li>They are baller for the environment as they use did wood</li> <li>They are generally easier to work with as the grain is further apart</li> </ul>	Unit	Buodesses Miscondeptions To Improve answer	Hardwoods are	
		<ul> <li>They are garerary easer to work with as the grain is further agent</li> <li>They take along time to grow so are expensive.</li> </ul>		sector	Sofwoods are	
Softwood A manimade board using recycled or scrap places of timber.	W.	16. Why do we use pine in school (1 mark 9	Timbers and properties	A		
		16. Why dowe usephein school (1 mark)?	Soute of	8	Manufactured boards are	
Manufactured Board A desiduous tree Platiceles Its leaves In winter			Ember			
	5.9	S/A	Tools and Equipment	G	Why do we use pine in schools?	
			Undestanding		CHALIENCE	
2. Circle the one from below hat is a softwood (1 mark): Oak Pine MDF Plywood	Timber Firishes 9. List3 different finishes you can use on timber (3 mail	As): 10. Why do we add a firish to timber (1 maA)?	of lamination		Why doesn't manufactured board have any grain?	
Can File and Paymon	a, casa ameren mares you can use on amole (ama	(a) To very colve add a men sourcer (1 mak)r	Timber Finish			
3. Circle the one from below that is a hardwood (1 mark):		5.6		_		
Spruce Beach Chipboard Pine			Timber (dints			
	Tools and Environment (sech question is 1 mails)	Understanding of the Landration Process:			SECTIONO	SECTIOND
4. Citie the one from below that is a manufactured board (1 mark):	11. What machine did you use to sand the box?	17. What does lamination mean (1 mark)?			Name the machines and what they do:	Laninalingis when you
MDF Cedar Mahapany Sprace			SECTIONS.	Timber comes from		Identify which is a single lamination and which is a double:
	12. What machine did you use to cut off the laminate	18. Using notes and sketches in the space below, you need to draw out	10 m	time of the terms		
5/A	st/(p67	a lamination design that would take 2 lessons (2 mails):	100 M	To remove bees from the ground we have to		
Soute of Triber	13. List 1 satisfy rule when using the mechines:			em for this is F		
5. Where does Ember come from (1 mail.)?	and a substitute of the strength of the substitute.			is good to buy susibilitable timber?	Name the todi you used foreach part of this project.	
6. How do we remove the timber from the ground (1 mark)?			ALC: NO	a general wy sustainade trider?	<ol> <li>Saving the lap joint for the fame:</li> </ol>	
	14. What are the tools below (4 marks);					
	100		· · · · · · · · · · · · · · · · · · ·		2. Making the wood to out the joint:	
Environmental Impact:			SECTIONS.			SECTIONE:
7. What negative (bod) impact does Imber have on the environment (2 marks )?	8			below and dirde the one we used in our box	3. Getting straight and panalel lines:	List 2 frishes you can use on timber:
				90000	4. Refiring the surface of the joint so that it is smooth	
			5-00		<ul> <li>Neering Resonance Reports o Fact 6 amount</li> </ul>	Why is it good to use a trish on timber?
5.0		50				Contract of the Contract of th
58	8.0		-			
	3 Mar 4 Lan 5 Sar 6 Wa Tenon Saw / N	e of	2 2 3 Diamond Task: Research	the key words below and write their definiso Peting / Deforestation	   	
	4. Toget straig	pe of because it is \$ ny compressed entery scraps of \$mber	۵			



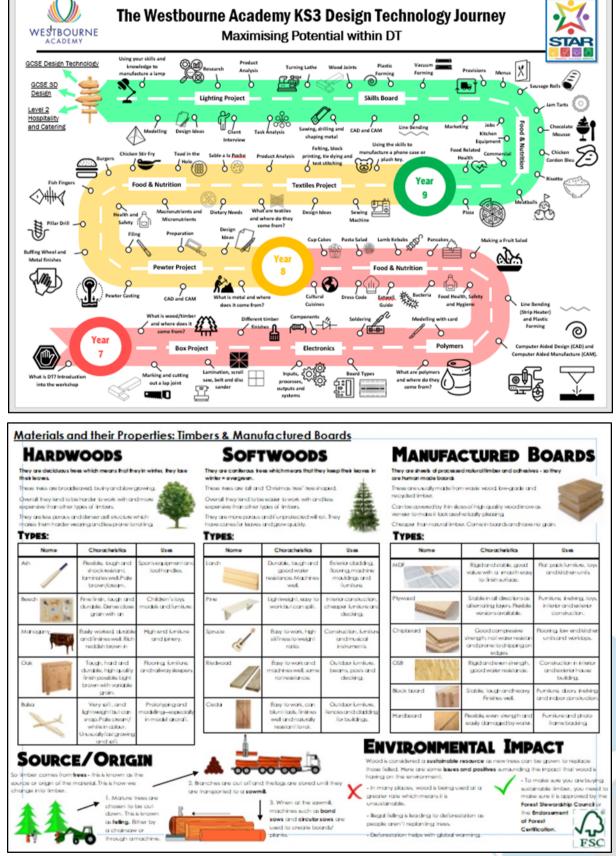


These new resources have improved their literacy skills in their homework and lessons, as they are required to write in full sentences and use the keywords provided. Furthermore, the examination has introduced exam style questions, which we are able to start embedding and strengthen their responses throughout KS3, providing better preparation for KS4. To develop the curriculum and retention of knowledge, we started to introduce low stake quizzing in the lessons as starters to assess where the students were at with their knowledge and revisit areas that were weaker. Further development on the progress of this will be from September 2020 due to COVID-19.

In addition, I attended the focus group based on curriculum to gain more insight into the new Ofsted framework, intent, implementation and impact. These group sessions were helpful as we discussed these 'keywords' and what they would look like in our subjects and whether or not this was taking place. These sessions then lead on to developing and investigating SOW's in which a proforma was generated (GCo) used in whole school; a clear and concise way of recording our new curriculum.

### **During Lockdown:**

To develop the curriculum further and to ensure students knew the path that they were on in DT, this detailed map of their journey at KS3 shows what they are leaning. This can help them as a prompt when they are studying and used as a resource. For example, remember when we learned this and using this map as a reminder by pointing to the section, therefore, aiding the student to remember. This applies to the knowledge organisers created that provide in-depth detail of the knowledge needed from that unit. Students can reference to them when answering questions for either class or homework, it is a single place for all that is be learned. As of September 2020, the use of these in lessons will aid student responses and provide them with more confidence when asking questions. It will give them a better grasp on subject terminology and again, start to embed keywords earlier on in the curriculum. Here are some examples:



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### **NPQML – Progress of Boys**

Alongside developing the curriculum, I completed the NPQML based on the progress of boys, as this was an area in which is a whole school focus and an area to improve within DT. After consulting with the HOD, the weakest unit was the examination. Hence, the need to introduce at KS3 as there was not anything beforehand. The progress 8 score for boys when I started was -0.21 and by the end, it was 0.13, for the more able of the boys, it was -0.63 and it increased to 0.17. I researched into various strategies and implemented these in my lessons; I recorded what had been successful and what had not. After trial and error, the most successful with this particular class was consistent testing and quizzing. This proved over time the most effective for the majority of the boys within the group, I completed this with a detailed tracker to enable me to see clearly, where they were sitting in relation to their target grade. If anyone came in under the expected level of progress, the student would re-sit that unit exam again (a different one so the answers were not the same). I have taken this strategy through and it is still proving successful, I have started to introduce low stakes quizzing also to see if this will improve their first attempt. If you would like to read the investigation, then please let me know and I will happily share and answers any questions.



