

Lesson	Content	Completed?	
		Y / N	EFFORT
	<ul style="list-style-type: none"> Project Brief & Context Existing Product Analysis 6RS Making a prototype Card Templates: marking out, cutting, folding <p>Homework: Create a mood board of acrylic line bent desk tidy (minimum 6 images).</p> <p>Challenge: Explain advantages and disadvantages to each design</p> <p>Further Challenge: Use ACCESS FM keywords to analyse and compare two desk tidy's from your mood board.</p>		
2	<ul style="list-style-type: none"> Life cycle Pollution Global warming Continuous development <p>Homework: Research and create a poster to explain how different types plastics are sourced such as bio plastics.</p> <p>Challenge : Research a plastic product and explain why its design and function suits the plastic properties and characteristics.</p> <p>Further challenge: Explain how your chosen plastic product could be improved.</p>		
3	<ul style="list-style-type: none"> Material Properties Polymer processes Plastic theory Environmental Issues Thermo & Thermoset Plastics Properties. Design specification Design idea one Peer assessment & Success criteria analysis Sourcing polymers and stock <p>Homework: Research and create a step by step diagram to explain Vacuum forming. List examples of product used by the process.</p> <p>Challenge: List materials used for this process and why they are best suited for the process.</p> <p>Further challenge: List and explain health and safety rules to follow when vacuum forming and why they are important to follow.</p>		
4	<ul style="list-style-type: none"> Practical - Filing, drilling, polishing Practical—Line bending Self assessment 		
5	<ul style="list-style-type: none"> Evaluation 		

THE BIG PICTURE

Why are we learning how to make a desk tidy and polymers?

You are learning how to make a desk tidy so that you:

- ◆ Develop use of key-words to annotate and communicate your ideas.
- ◆ Develop my understanding of Positive and negative impacts new polymer products have on the environment.
- ◆ Develop and enhance your workshop skills and learn to use the equipment more independently.
- ◆ Can fully explain the properties and manufacturing processes of polymers and can give examples of where they are used and why.



New Learning made.

List three or more subject specific information you have learnt in this project.


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Cycle Line bending and Polymers				
My Expected Grade				
Teacher Assessed Grade (circle)				
SBE	BE	E	AE	SAE
Comment:				

Grade		Prior Knowledge	New Knowledge
8 - 9	I can... <ul style="list-style-type: none"> Explain most examples of polymers, their properties and where they can be used. Confidently explain multiple polymer manufacturing processes and multiple product examples. Develop my ideas using isometric drawing techniques which show relevant details of materials; measurements and processes. Demonstrate the ability to effectively plan and manufacture a high quality product. Write a detailed specification using keywords appropriately with justifications for my points. Reflect on my research; analyse the information and make judgements which will inform my design decisions. Model my ideas effectively to scale and evaluate third party feedback to modify; improve and reproduce new prototypes based on this feedback. I can work safely in the workshop with a good degree of accuracy and skill. Analyse an existing product, focussing on its form, function and eight other keywords. Explanation each comment. 		
6 - 7	I can... <ul style="list-style-type: none"> Explain multiple examples of polymers and their properties and where they can be used. Able to explain some polymer manufacturing processes and a product example. Fully develop a range of ideas with clear annotation, linking my development to ongoing research. Write a specification using a range of keywords effectively. Analyse an existing product, focussing on its form, function and eight other keywords. Explanation each comment. Reflect on my research; analyse the information and make judgements which will inform my design decisions. I can work safely and skilfully in the workshop using a range of tools and equipment. 		
4 - 5	I can... <ul style="list-style-type: none"> Explain some examples of polymers, their properties and where they can be used. Able to explain one polymer manufacturing processes. Explain what a design process is and develop my ideas within this. Plan and manufacture a good quality product. Make a list of important requirements which will make my product successful. Model my ideas using appropriate materials and evaluate their success Work safely in the workshop using a range of tools & equipment 		

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

KEYWORDS	Recycle	Continuous development	
Reduce	Reuse	PPE	
Reuse	Rethink	Life cycle	
Repair	Refining	Brittle	



LEARNING TOOLS

Challenge!

Can you add more keywords you have covered?

