Dothill Progression Mapping



Design Technology

nespect	Happiness Responsibility Creativity HONESTY Enthusia	sm Confidence Kindness Cooperation fairness				
	Year Three	Year Four Pasta - the history of pasta (Healthy) Torches - Conrad Hubert				
Design	Moving books Free standing photo frame					
	 Begin to research what is available on the marker and who might purchase these items Describe the purpose of product Have at least one idea about how to create a moving book and a freestanding photo frame Create a plan which shows order, equipment and tools Describe design using an accurately labelled sketch and words Show how your design meets a range of requirements Follow a given design criteria Make design decisions Explain how product will work Make a prototype Begin to use computers to show design 	 Research the history of pasta and torches to help develop design ideas Describe the purpose of torches and describe which foods are healthy and why Have at least one idea about how to create a healthy dish using pasta and the components of a torch Suggest improvements for my design Show how my design meets a range of requirements and is fit for purpose Begin to create my design criteria Produce a plan and explain it to others in my class including my peers and my teacher Say how realistic plan is Include an annotated sketch of my design Make and explain design decisions considering availability of resources Explain how my product will work and how it might taste Make a prototype of my design Begin to use computers to show design 				
Make	 ✓ Select suitable tools/equipment I will use to make my moving book and free-standing photo frame ✓ Explain my choices ✓ Begin to use the tools/equipment chosen accurately ✓ Select appropriate materials that are fit for purpose. ✓ Work through my plan in order ✓ Consider how good I think my product will be ✓ Begin to measure, mark out, cut and shape materials/components with some accuracy ✓ Begin to assemble, join and combine materials and components with some accuracy 	 ✓ Select suitable tools and equipment I will use to make Pasta and a torch ✓ Explain my choices in relation to required techniques and use the equipment and techniques accurately ✓ Select appropriate materials that are fit for purpose and explain my choices ✓ Work through my plan in order ✓ Realise if my product is going to be good quality and why this might be ✓ Measure, mark out, cut and shape materials/componentswith some accuracy ✓ Assemble, join and combine materials and components withsome accuracy ✓ Apply a range of finishing techniques with some accuracy 				

Evaluate	• Look at design criteria while designing and making my moving book and ✓ Refer to design criteria while designing and mak						signing and making		
Cvaldate	free-standing photo frame				✓ Use criteria to evaluate my product				
	✓ Use design criteria to evaluate finished product				✓ Begin to explain how I could improve the original design				
	✓ Say what I would change to make my design better				✓ Evaluate existing products, considering: how well they've				
	✓ Begin to evaluate existing products, considering how well they have been				✓ been made, materials, whether they work, how they have been				
	made, materials, whether they work,			✓ made fit for purpose					
	✓ how they have been made and whether they are fit for purpose			 Discuss by whom, when and where products were designed 					
	✓ Begin to understand by whom, when and where products were designed			✓ Research whether products can be recycled or reused					
			esigners/engineers/ch	efs/		thier about outlies into into its about the or one of the for that are of			
		manufacture of greater at earning products			ground-breaking products				
Technical	Technical Knowledge-Materials/structures (Free standing photo frame)				Technical Knowledge- Electrical systems (Torches)				
Knowledge	 ✓ Use appropriate materials ✓ Work accurately to make cuts and holes 				✓ Use several components in a circuit				
					✓ Program a computer to control product				
		rials together to bui							
	✓ Begin to make strong structures				Technical Knowledge-Food and Nutrition (Pasta)				
					Explain how to be safe and hygienic when preparing/making food				
	Technical Knowledge-Mechanisms (Moving books)				Think about presenting product in interesting/attractive ways				
	✓ Select appropriate tools/techniques				✓ Understand ingredients can be fresh, pre-cooked or processed				
	 ✓ Alter product after checking, to make it better ✓ Begin to try new/different ideas 				 ✓ Begin to understand about food being grown, reared or ✓ caught in the UK or wider world 				
	✓ Begin to try new/different ideas ✓ Use simple lever and linkages to create movement				✓ Caught in the OK or wider world ✓ Describe eat well plate and how a healthy diet=variety /				
	Use simple lever and linkages to create movement			bescribe ear wer plate and now a hearthy diet-variety? balance of food and drinks					
		✓ Explain importance of food					rink for active, healthy	,	
				bodies					
					✓ Prepare and cook a dish safely and hygienically				
					✓ Use some of the following techniques: peeling, chopping,				
					✓ slicing, grating, mixing, spreading, kneading and baking				
	Design vocabulary	Technical	Evaluate		Design vocabulary	Technical		Evaluate	
Vocabulary	Plan	Knowledge and	Assess		Plan	Knowledge and	Cooking and	Assess	
Vocabulary	Organise	<u>Making</u>	Edit		Organise	<u>Making</u>	Nutrition	Edit	
	Prototype	Materials	Improve		Prototype	Materials	Healthy	Improve	
	Initial ideas	Adhesive	Alter		Diagram	Hand-made	Unhealthy	Alter	
	Criteria	Lattice	Outcome		label	Machine-made	Balanced Vitamins	Outcome	
	Product	Hand-made	Develop		Initial ideas	Dimensions	Nutrition	Develop	
	Target audience	Presentation	Test		Criteria	Durable	Hygiene	Test	
	Purpose	Machine made	Effective		Product	Shape	Diet	Effective	
	Application	Dimensions	Fit for purpose		Target audience	Packaging	Cross contamination	Fit for purpose	
	Constraints	Durable	Design criteria		Consumer	Presentation	Grams Storage	Design criteria	
			Models		Purpose		Presentation	Models	
			Quality		Application		Taste	Quality	
			Function		Constraints		Texture	Function	
							Flavour		
							Disinfect		
							Bacteria		
		1			1	1			