Pioneer Federation Medium term plan LKS1 Cycle 2, Term 5 D.T



Subject: D.T					
Key Concept/	Theme : What makes a great exp	lorer?			
Prior Learning	links: EYFS – Water KS1- Bright	Lights Rig City — Model Ruses			
Vocabulary : ev	valuate, join, buoyant, recyclable	e, sturdy, stable, model			
School specific	areas to cover (Add in any loca	l areas of study, trips and people)			
	СР	EH	SMV	PM	
Create simple	e designs for a product • Use	e pictures and words to describe what they	 v want to do ● Select from and use a range o	l of tools and equipment to perform	
practical tasks ● Use a range of simple tools to cut, join and combine materials and components safely ● Investigate different techniques for stiffening different					
materials and explore methods of enabling structures to remain stable • Generate, develop, model and communicate their ideas • Choose appropriate materials, tools,					
techniques, equipment from a wide range ● Safely measure, mark out, cut and shape materials and components using a range of tools					
To know how to combine different materials					
To know how to use different materials to create different textures					
To know how to reuse materials to create a new structure					
1.	Prior learning reconnection (year group, cycle & term): 1/2 EYFS- Water KS1 —Toys- puppet theatre KS1 Bright Lights Big City — make a model bus			zy – make a model bus	
	Recap of prior learning from last term – why is it important to recycle? pollution in our oceans LO: Let's learn how to design a model boat				
	•		onlorers who have made discoveries by travelling	across the oceans? Discuss why it is important	
Topic link to explorers -gauge prior knowledge- do the children know of any explorers who have made discoveries by travelling across the oceans? Discuss why that the ship is reliable and sturdy for long voyages. Introduce explorers like Shackleton, Ellen Macarthur and David de Rothschild whose boat was partly made					
	bottles. Explain to the children	that they will be making their own boat out o	f recyclable materials and testing/racing them. R	emind the children that they need to consider	
	·	ant and which materials will be suitable for use			
		er plastic recyclables from home- bottles, punn			
2 and 3		nd discuss what buoyancy means. Why do they	think their design will stay afloat?		
	LO: Let's learn how to make ou	ur model boat			

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(making)	Children to select suitable materials for their design. Encourage them to consider what properties are important and why e.g. light – fast, waterproof – will remain afloat.				
	How will they join materials? How will those joins remain strong in water?				
4	Reconnection: Children to have opportunity to check their models and discuss with peers any potential weaknesses.				
(testing)	LO: Let's learn how to test our models				
	If possible, create a boat race scenario using outdoor water play resources or containers. Otherwise, children can test the buoyancy of their models by creating movemen				
	by swirling the water. What do they notice? Do they need to make adaptions? How can they streamline their design? Is their design waterproof?				
5	Reconnection: What challenges did you face?				
(evaluating)	LO: Let's learn how to evaluate our models				
	Activity: Explain to the children that they are going to complete their evaluations. What challenges did they experience? How did they rectify them? What might they do				
	differently? It might be they write comments around a photograph from the testing process.				
	End points:				
	What did I have to change from my original plan?				
	Which part do I think worked particularly well?				
	Are there any areas I would change?				
	What might I do differently if I were to do this project again?				

End of unit quiz

End points

- To know how to combine different materials.
- To know how to use different materials to create different textures
- To know how to reuse materials to creature a new structure.