The King's Quest Design and make a throne for a King		<u>DT Theme:</u> <u>(Structures)</u>	Teaching focus: Learning Lens: Structures Class: Year 2			
Previous Knowledge			Key skills			
How can I join? (EYFS)			Generating and communicating ideas using sketching and modelling. Learning about different types of structures, found in the natural world and in			
Project Hook or 'Wow' memory			everyday objects.			
Introducing the King's Quest			Creating joints and structures from paper/card and tape. Building a strong and stiff structure by folding paper. Exploring the features of structures.			
Learning Steps	Key Knowledge		Comparing the stability of different shapes. Testing the strength of their own structures. Identifying the weakest part of a structure.			
Which shape and structure is the most stable?	Shapes and structures with a low height, a wide and flat base are the most stable.		Making a structure according to design criteria. Evaluating the strength, stiffness and stability of their own structure. <u>Key vocabulary</u>			
How can you make structures stronger, stiffer and more stable?	corners. Corners work really h while the walls between them Eventually, the corners buckle Cylinders are the strongest, sin corners. The whole structure h therefore carry more weight. simply remove the corners. Overlapping the paper improve thickens the walls by layering.	are weaker because they have ard and try to support the weight, do very little of the weightlifting. under the whole load and collapse. mply because they do not have any bears the weight evenly and can To improve strength in a structure, es the stiffness of the structure as it To increase stiffness, thicken the walls makes them even stiffer. Stiffer th.	man-r natura prope struct stable	al rrties ure Final outcome	stiff strong shape model test mould	
What is your throne going to look like? How is it strong, stiff and stable?	and how it will be decorate tubes/cylinders , the size th	nows what the throne will look like d. Explain how many inner or shorter , what materials, s to be used and how it will be	King st Provid	Make a throne for the King that is strong, stiff, stable and attractive.		
How does your throne meet the success criteria? How strong, stable and stiff is it?	strength, stiffness and expla	ts the king. Test it's stability, ain how it's attractive. Evaluate the table, strong and attractive plus e improved.	plus word cards. Work with a partner or adult. Copy a design already. Give support for cutting materials and using tape to secure joints.			