

Who Do We Think We Are? Part 2 - Normans

Purpose of Learning Journey (ENDPOINTS): Substantive knowledge children will know: Disciplinary knowledge children will know how to/ will be able to:	Drign Design use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals of -through howards the design brief for a component of the Bayeux i fapestry requires. by howard what the design brief for a component of the Bayeux i fapestry requires. Through howards the requirements of a concept draward, peoploded diagram and a working drawdard communicating their designs accordingly. -through howards the requirements of a concept draward, peoploded diagram and a working drawdard and communicating their designs accordingly. -through research and consideration, knowing that triangular structures and adding additional bracing uncreases the strength of joins. -through research and consideration, knowing the different aesthetic properties of stitching techniques (funning, back, square and chan) Make select from and use a wider range of tools and equipment to perform practical task (for example, cutting, shaping, joining and finishing), accurately select from and use a wider range of materials can decomponents, including construction materials, textiles and hanyon which tool is appropriate for a given task (e.g. workbencher sequired for accurate, mixed cust.) -through manufacturing a component of a Y5 Bayeux Tapestry knowing what a seam allowance is, that fabrics can be stitched over each other to create applique necessary for a good aesthetic outcome. Evaluate investigate and analyse a range of esiting products understand how key events and individuals in design and technology have heighed shape the world -through research and consideration, knowing what the requirements of a design brief for a working model of a trebuchet and a component of a Y5 Bayeux Tapestry regular heir understanding of how to strengthen, stiffen and reinforce more complex structures -through research and consideration, knowing that a longer leaver and a heavier weing thanging certain variables and the steps necessary to ensuri
Links to Prior Knowledge:	History – build on Anglo-Saxons/Vikings learning; Science – forces; DT – joining materials, cutting and measuring materials, stitching and
Links for Relevance and Currency:	STEM skills – growing skills and sustainability.
Immersion Event / Activity:	'Playing with toys' / Gardening / Trebuchet videos
	r laging with logs / Ourdening / republic videos



or groups

and computer-aided design.

and aesthetic qualities for structural beams, hot glue for joins with increased

ues effects and that accurate stitching (equal stitch length) is

estry should be.

a fair test.

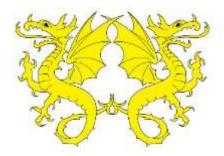
s of throwing a payload.

in terms of throwing a payload.

l and thermal), and response to magnets

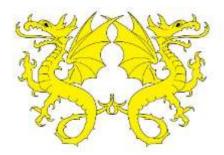
vith burning and the action of acid on bicarbonate of soda

and cutting fabric, applique



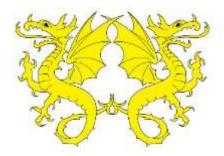
Celebration of Learning: Normans day – assault on castle with woodwork trebuchets, completion of tapestry, shelter building and cooking of soup on fires.									
English Links: Explanation text			Explanation text						
Maths Links:			Measurements						
Subject			Key Knowledge or Skill	Substantive and Disciplinary knowledge and	Outcomes	Lir		Curri rivers	iculum
Subject	Lesson	(Taken f	rom Chris Quigley Milestone or scheme of work)	Skills embedded through:	Outcomes	Values	Outdoor Learning	P4C	Global / Rights TASC
Science - forces Immersion	1	Understand 1	movement, forces and magnets	Exploration of children's toys which require different forces to work.	Scientific diagrams with forces labelled accurately.				x
Science - forces	2	Describe the	forces of gravity, friction and air resistance	Looking at the world around them and how these forces act on us Links back to Space topic – moon's gravity, escaping Earth's gravitational pull for space travel	Understand the forces of gravity, friction, air resistance in the context of their trebuchet project as well as in the wider world				
Science - forces	3	Pupils might theory of gro	find out how scientists, (Isaac Newton) helped to develop the avitation.	Input and discussion in relation to theory of gravity . Comprehension activity on Isaac Newton	Learn about the life and work of Isaac Newton observing gravity and making sense of its effect on life on Earth				
Science - forces	4	5	gnise that some mechanisms including levers, pulleys and gears ller force to have a greater effect	Practical investigation to show that levers allow us to move heavier objects more easily – force meters	Know that a lever can be used to create a greater force with less effort.				
Science – forces	5		gnise that some mechanisms including levers, pulleys and gears ller force to have a greater effect	Practical experimentation using pulleys – force meters	Know that a lever can be used to create a greater force with less effort.				
DT	DT1	appropriate winding me Design with offer (rather	ic knowledge of the transference of forces to choose e mechanisms for a product (such as levers, echanisms, pulleys and gears). (M2) In the user in mind, motivated by the service a product will In than simply for profit). In than simply for profit). In the user in a simply for profit).	Children are introduced to the Normans' technological skill in building fortifications and the requirement for technology to assault these castles. Shown videos of trebuchet reproductions and diagrams of key features. Discuss relevant forces in action. Discuss problems of building trebuchets and key requirements – Strength (re-inforce, non-flexible, join), Stability (base, anchor). Children will be introduced to the materials used and the potential techniques for joining materials, the materials themselves and various shapes. Building up information to choose suitable techniques. Children use some joining strategies to test next lesson.	Children secure background knowledge of the product, intended purpose, method of operation, forces involved, potential materials and building strategies.	X			x





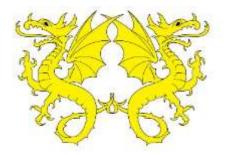
			Children complete basic information gathering form.				
		Design with the user in mind, motivated by the service a product will offer (rather than simply for profit).	Children recap learning in relation to requirements of the product and key factors to remember when designing their trebuchets.				
		Make products through stages of prototypes, making continual refinements.	They test the strength of the joins that they created last lesson – adding details to their information sheets.	Children will have added to their			
DT	DT2	Use prototypes, cross-sectional diagrams and computer aided designs to represent designs	They begin to design their trebuchet bases in order to produce designs of the two side-pieces and a 3d diagram of how they will be joined, with annotations.	understanding of the materials, joins and shapes that they will make use of and have created a detailed and accurate diagram.	x		x
		Combine elements of design from a range of inspirational designers throughout history, giving reasons for choices.	Children are encouraged to measure and cut lengths of paper to assess how big the pieces will be in real life.				
			Children share designs during a learning walk round the class before updating their designs.				
			Show children images of tools/materials and get them to discuss how they will use them, what tasks they need to do and how to work safely.				
		• Design with the user in mind, motivated by the service a product will offer (rather than simply for profit)	Full tool talk. Children work from their plans in their groups to build				
DT	DT3	• Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filing and sanding)	their models. Recap emphasis on accurate measurement and their learning on types of join.	Children will have constructed a strong, stable and purposeful base for their trebuchest.	x		x
		\cdot Cut materials with precision and refine the finish with appropriate	Recap key consideration: stability, strength.				
		tools	Model safety practices for hot glue guns, saws, saw blocks and craft knives. Set expectations for sensible working.				
			Stop periodically to model good learning				
		• Design with the user in mind, motivated by the service a product will offer (rather than simply for profit)	Continuation of last lesson. Full Tool Talk.				
DT	DT4	• Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filing and sanding)	Children remind themselves of their designs and learning thus far. Children cut materials for and build their frames.	Children will have constructed a strong, stable and purposeful base for their trebuchest.	x		x
		• Cut materials with precision and refine the finish with appropriate tools	Children evaluate their designs based on the features/properties that they decided their design needed				





		• Evaluate the design of products so as to suggest improvements to the user experience.					
DT	DT5	Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears). (M2)	Children shown details of the mechanism of the throwing arm. Define key components: arm, axel, sling/basket, counter-weight. Children shown various models of arm (long- heavy weight, short — light weight etc) and are asked to make predictions on their performance. These are then tested on the prototype trebuchet and children use their observations to inform their design choices. Children look back at their frames to think about measurement. Children then do an annotated component diagram of their throwing arm. Groups that has designed and constructed their trebuchets thus far are encouraged to construct a design with a sling for the projectile.		x		
DT	DT6	 Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears). (M2) Design with the user in mind, motivated by the service a product will offer (rather than simply for profit) Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filing and sanding) Cut materials with precision and refine the finish with appropriate tracks 	Full Tool Talk. Children remind themselves of their designs and learning thus far. Children cut materials for and build their throwing arms. Children evaluate their designs based on the features/properties that they decided their design needed	Children have added a working throwing arm to their frame to produce a working trebuchet.	x		;
DT	DT7	• Evaluate the design of products so as to suggest improvements to the user experience.	Celebration and evaluation – children take part in outdoor learning Normans afternoon with shelter building to build a "camp" before setting up their trebuchets to measure the distance that they can fire and whether they can destroy a small wall made of maths blocks.				
DT	DT7		Cooking activity to go with Normans Day. TO BE COMPLETED				
DT			Communication – trebuchet advice sheet for a new Y5 – See English planning.				
M I	4					 X	
<mark>nce - Materials</mark>	<mark> </mark>		Changing states		X X	X	ļ
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Science - Living things and their habitats		Gardening				
RE	Religion - Christianity Theme - Easter Key question - How significant is it for Christians to believe God intended Jesus to die? Concept - Salvation	Learning to question whether God intended Jesus to be Crucified or whether Jesus' crucifixion was the consequence of events during Holy Week.	 To be able to give an example of someone with a strong sense of purpose for their life and give their opinions on this. To start to explain whether God intended Jesus to be crucified or whether Jesus' crucifixion was the consequence of events during Holy Week. To start to express their opinion about Jesus' crucifixion being his destiny/purpose. 	x		

