

UKS2 – Lesson Plan 2 – History

How did medieval engineers design siege engines, and can we recreate them using modern materials?

Aim: Children will explore the history of siege engines, learn how they were used, and apply their knowledge to design and build a working model that reflects historical inspiration but uses modern D.T. skills.	Key Words: Siege engine, catapult, trebuchet, counterweight, pivot, lever, tension, projectile, accuracy, stability, medieval, warfare.	Preparation: - Images and diagrams of historical siege engines (catapults, trebuchets, battering rams) - Short video showing how a trebuchet or catapult works - Cardboard, lollipop sticks, rubber bands, masking tape, string, small plastic cups, glue guns (with supervision) - Small soft projectiles (marshmallows, paper balls) - Rulers and protractors for measuring launch angles - Large paper for design sketches
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Prior Learning: Children may have studied simple machines in science (levers, pulleys) and medieval history topics such as castles and warfare. They may also have experience with basic model construction in D.T.

WC / PT	<u>Warm-up:</u> Show an image of a medieval castle under siege. Ask: - How would people try to break through the walls? - What tools or machines might they use? Briefly introduce siege engines and their importance in medieval battles. Discuss differences between catapults and trebuchets.	0-5 mins
WC	<u>Main Teach:</u> Demonstrate a small working model of a catapult or trebuchet (or show a video). Break down the key engineering principles: Lever mechanics – how the arm moves Energy storage – tension from rubber bands or counterweights Accuracy and range – adjusting angles and power Explain that children will design and build their own small-scale siege engine, inspired by historical designs but adapted using modern classroom materials.	5-10 mins

I / S	<u>Activity:</u> Children work in small groups to: 1. Research & Plan – choose a siege engine type and sketch their design. 2. Build – assemble the model using provided materials, focusing on stability and function. 3. Test & Adjust – launch projectiles and measure distance and accuracy, making modifications to improve results. Safety rules should be reinforced throughout.	10-30 mins
I	<u>Extension Challenge:</u> 1. Modify your design to improve accuracy over long distances. 2. Create a historically themed decoration for your siege engine, adding coats of arms or wood-effect paint for authenticity.	30-35 mins
WC	<u>Plenary:</u> Hold a “Siege Engine Showdown” where each group presents their design, explains its historical inspiration, and demonstrates a test shot. Discuss: • What design features worked best? • How did medieval engineers overcome challenges? Reflect on how D.T. skills can bring history to life.	35-40 mins

WC – Whole Class

PT – Partner Talk

I – Independent

S - Support

Challenge A	Maths Link: Record launch distances, calculate averages, and create a bar graph comparing results.
Challenge B	Geography Link: Research the location of famous medieval sieges and map them with details about the terrain and climate.