

Elston Hall Learning Trust **DT**

Conflict

Key Skills & Knowledge

Athens V Sparta

How can we reinforce materials to make a strong structure?

What will we be learning?

- To select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing) accurately
- To apply our understanding of how to strengthen,
 stiffen and reinforce more complex structures ¬
- To generate, develop and explain ideas for products to meet a range of needs
- To evaluate work, adapting and improving where appropriate

Prior Learning:

- Making a strong structure (model of a house) –
 Unity in the Community (Y1)
- Using mechanisms in structures Come Fly with me! Arctic Circle (Y2)
- Using levers and linkages That's All Folks (Y3)

What will you be doing?

- We will look at different weapons used and identify what makes them strong.
- We will explore how to stiffen and reinforce materials to help with our designs
- We will sketch a few different designs with labels for materials and techniques required eg stiffen, reinforce
- Identify the equipment required and explore the different purposes they are used for
- We will make our siege weapon (trebuchet)
- We will evaluate our siege weapon

Future Learning:

- Using levers and linkages Law and Order (Y4)
- About Viking battles Viking Warrior (Y3)
- How to add electronics to make a structure move
 A World of Bright Ideas (Y6)

Words you will be using

design

a plan or drawing before something is made



model

a make of a proposed structure, on a smaller scale

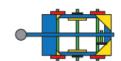
siege weapon/trebuchet

a type of catapult that uses a long arm to throw



plan view

a view of a design from above



timber

wood prepared for use in building



washer & screw



saw



construct

use materials and tools to create your design by following your plan