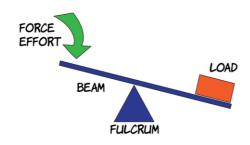


## WHAT SHOULD I ALREADY KNOW?

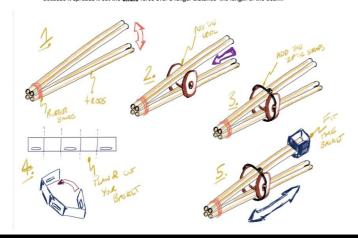
- I know how to design products with a purpose.
- How to use a range of tools and materials to make my product.
- How to evaluate my product by identifying the strengths/ weaknesses and by assessing how closely it meets the success criteria.
- Build simple structures and understand mechanisms such as levers, sliders and wheels.

## A LEVER IS A SIMPLE CATAPULT



A lever is simply a beam or plank that rotates on a pivot called a Fulcrum.

This doesn't change the amount of <u>effort</u> needed, but does make the <u>'work'</u> easier
heaves it sneeds it nut the <u>effort</u> 'force over a longer distance, the length of the heave



## VOCABULARY

Lever	A simple machine that reduces the effort needed
	to lift a load.
Simple	A device used to make work easier.
machine	
Load	The load in our project is a clay ball or wooden ball.
	However, the load could be a stone or cannon ball.
	As the load is ejected from the catapult it
	becomes a projectile.
Rods	Wooden or metal long cylindrical sticks.
Spools	Cylindrical device on which things can be wound or
	can pivot.

## WHAT WILL I LEARN?

- Design I will be able to develop a clear plan with an idea of the material and equipment that I will use, and take inspiration from similar products for my design.
- Skills I will be able to use appropriate tools/ techniques to create a catapult to launch a load.
- I will be able to show my ideas to others using pictures and diagrams.
- Evaluate I will be able to evaluate my work using tests to see if the product fulfils the success criteria.