



# Linked learning theme: Roman Remains

Spring term, Year 3

## Design & Technology – Mechanical Systems

### Prior knowledge

In Year 2, children have used mechanisms to make their product move. This is the first time children will be using a lever to make their product move.

### Core knowledge

- A lever creates movement through the pushing and pulling forces.

### Key skills

- Research and evaluate our own prototype that uses the lever system.
- Design our own product based on the Roman designs of a trebuchet.
- Create an annotated sketch of our own design.
- Evaluate their product. Identify problems with their product and be able to find solutions.

<b>Vocabulary</b>	Innovation	Functionality	Prototype
Levers	Mechanism	Product	Problem
Forces	Design decisions	Design	Solution

### Learning Outcomes

- I can identify the needs of the user.
- I can record ideas and plan using annotated sketches.
- I can use tools with increasing accuracy.
- I can discuss how well the finished product meets the design criteria.
- I can use mechanical systems (linkages) to make things move.