

# Mechanisms Construction

## Prior Knowledge

Reception – Explore and talk about books containing flaps.

Year 1 - Deconstruct a simple slider . Make a lever by joining card strips with paper fasteners.

Year 2 - Deconstruct and assemble the net of basic 3D shapes. Use materials to make simple joints, glue, tape and paper clips.

Year 3 - To design and make a simple musical instrument.

Year 4 - Create a range of sliders and levers

## Future Knowledge

Year 6 - Designing and making a Tudor house through joins.



## My Component Knowledge:

**Lesson 1:** I can collect information about Viking boats.

**Lesson 2:** I can recognise that my designs have to meet a range of different needs.

**Lesson 3:** I can explore the different mechanisms and how they move.

**Lesson 4:** I can communicate my ideas using words and labelled sketches.

**Lesson 5:** I can create my longboat using appropriate tools.

**Lesson 6:** I can evaluate my finished work, suggesting changes.

## My Composite Knowledge:

I can understand the use of mechanical systems in products and design my own working product.

## My Powerful Knowledge:

I can research, design, make and evaluate the processes needed to construct and complete my

## Key Vocabulary

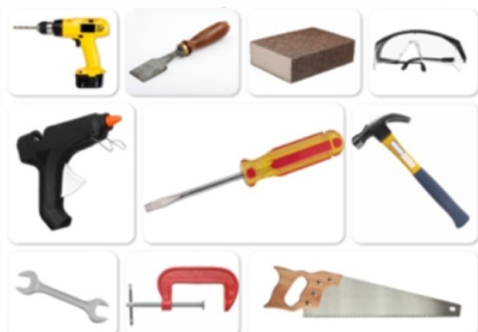
**Tier 1:** outline, expression, length, shape, width, rotation

**Tier 2:** roar, net, mechanism, crank, slider, shaft, lever

**Tier 3:** specification, gawp, adjustments, oscillation



How long was a long ship?



How will your beast open its mouth?

How will you design your longboat?

What mechanisms do you know?