

Year Group 3
Spring

Knowledge Organiser: Design & Technology

Theme: Superhumans



Strands:

Mechanical systems:
Levers and linkages

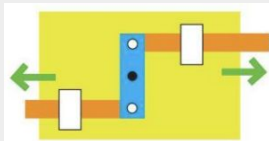
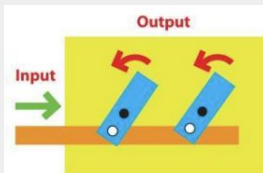
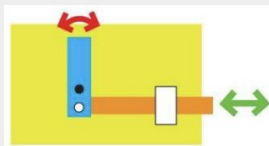
What have I learnt already?

In Year 1, you learnt that wheel & axle mechanisms enable things to move more easily.

In Year 2, you learnt the difference between a lever and a slider mechanism and the type of movement each produces.

Key knowledge that will be learnt:

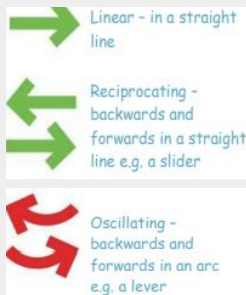
Understand and use lever and linkage mechanisms



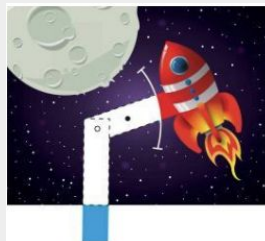
Know about fixed and loose pivots and their differences.

Understand the input & output of a mechanism

Know and use the technical vocabulary involved



Design, make and evaluate a moving picture



Key Vocabulary:

mechanism	A device used to create movement in a product
lever	A rigid bar that moves around a pivot
linkage	A rigid bar joining one or more levers to produce the type of movement required
loose pivot	Joins levers & linkages together and can move
fixed pivot	Joins levers & linkages together but does not move
guide	Keeps lever & linkages in place and controls movement
input	What you have to do to start the movement
output	The movement produced by the mechanism
system	A set of related parts/components used to create an output