

Knowledge organiser for Sliders and Levers

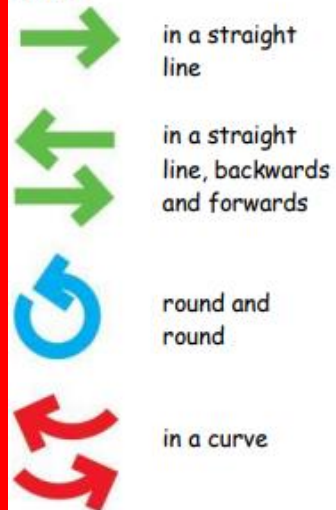
Key vocabulary

Mechanism	The device used to create movement in a product.
Slider	A rigid bar which moves backwards and forwards along a line. It does not have a pivot.
Lever	A rigid bar that moves about a pivot.
Pivot	A point which a lever turns around.
Bridge / guide	A short card strip used to keep the slider in place

How do I design?

Prior learning	Find books that already use simple levers and sliders
Design	Generate new ideas through drawing and modelling
Make	Use a range of equipment, tools and techniques to produce a product.
Evaluate	How well does your product work against the design criteria?

Simple mechanisms move:

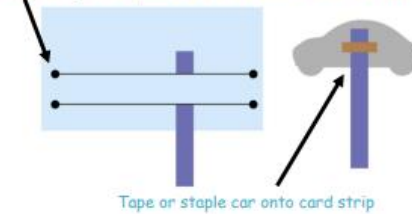


Types of mechanism

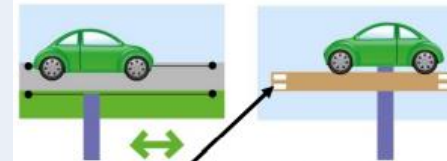
Slider

Sliders move from side to side and up and down

Use a single hole punch to make a hole then cut a slot



Tape or staple car onto card strip



Sticky fixers on back of card strip

A card strip could be used instead of cutting slots to allow movement

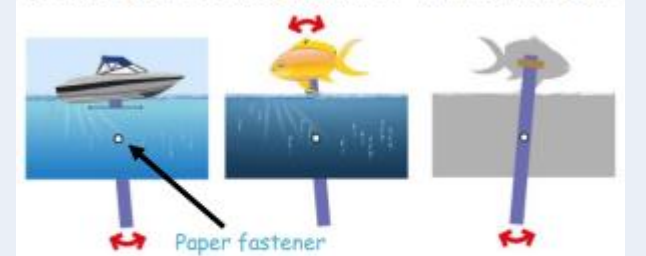


Masking tape

Rabbit moves up and down

Lever

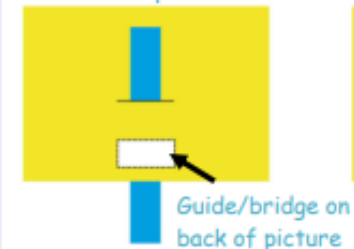
Levers can be used with or without a slot



Paper fastener

A card strip is used as a lever. The fish and boat are glued to the lever which is used as a handle.

KS1 - Simple slider



Guide/bridge on back of picture

KS1 - Simple lever



Paper fastener pivot