

Design & Technology Knowledge Organiser

Year one—Simple sliders & levers

Design

Explore levers and sliders understanding that they are mechanisms.

Different mechanisms use different kind of movements

To know that levers and sliders can make things move

To use the words: up, down, left, right, vertical and horizontal to describe movement

Look at some books that use simple sliders and levers

Make

Know the steps needed to create a moving model that uses levers and sliders

Explore different mechanisms

Different tools that can be used and how to use these safely

Evaluate

How did it go? What went well, what didn't go well. What would you change next time?

Links to prior learning

Use one handed tools and equipment for example, making snips in paper with scissors.



Key words

slider, lever, pivot, slot, bridge/guide

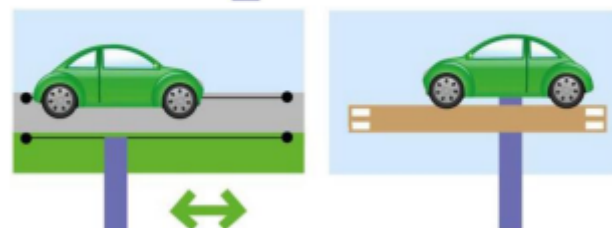
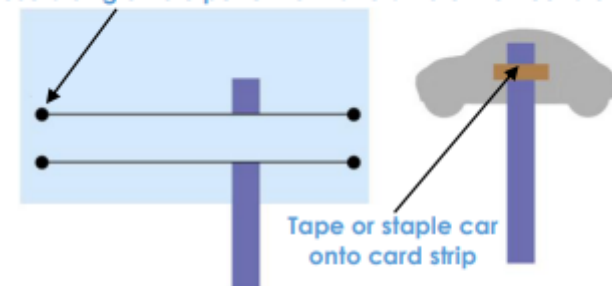
card, masking tape, paper fastener, join

pull, push, up, down, straight, curve, forwards, backwards

design, make, evaluate, user, purpose, ideas, design criteria, product, function

Sliders move from side to side and up and down

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



Sticky fixers on back of card

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



Masking tape



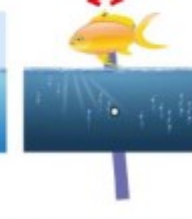
Rabbit moves up and down



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.