



Design and Technology Knowledge Organiser

Year 1: Spring Term – Mechanisms

Sliders and Levers

Design, make and evaluate a moving card for Mother's Day.



Key Knowledge

Learn this information

Key Skills

Practise and perform these skills

Key Vocabulary

Understand these key words

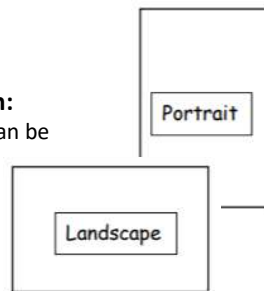


Moving Pictures:

Moving pictures allow you to move characters or objects across a background.

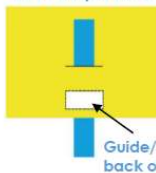
Page Orientation:

Page orientation can be landscape or portrait.

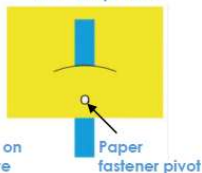


Simple Slider:

KS1 – Simple slider



KS1 – Simple lever



How simple

mechanisms move:

Using a selection of books that include sliders and levers (from various authors), demonstrate the different ways in which these simple mechanisms can move.

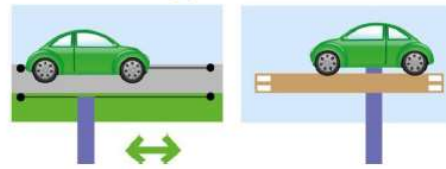
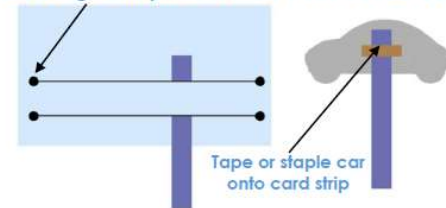
Simple mechanisms move...



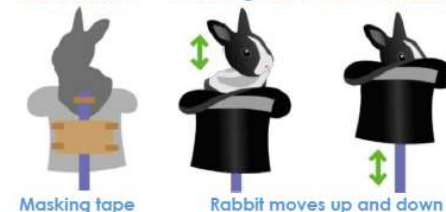
Sliders:

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



Levers:

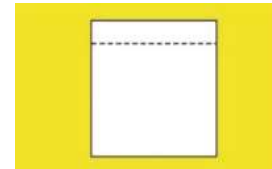
Levers can be used with or without a slot:



Cut accurately with scissors:



Flaps:



As an enhancement to the project, children could add flaps to their moving pictures. Some children may find flaps, which can be used to make a picture appear and disappear, easier to make than levers or sliders.

Vocabulary	Definition
Design	To make, draw or write plans for something.
Guide or bridge	A short card strip used to keep the lever in place and control movement.
Join	To link or connect together
Lever	A rigid bar which moves around a pivot.
Pivot	The central point or pin on which a mechanism turns.
Prototype	A practise version, that lets you test out your idea and see how it will look and work.
Slider	Something that can move from side to side or up and down.
Slot	The hole through which a lever is placed to enable part of a picture to move.
Test	To find out whether something works as it should.