

Y1 DT Unit – Moving pictures – Autumn 2

Key Knowledge	
Design Process	
Research	Investigate and analyse a range of existing products. Explore a range of existing books and everyday products that use simple sliders and levers
Design:	Generate, develop, model and communicate their ideas through discussion and annotated sketches
Make	Use a range of tools and equipment to perform practical tasks accurately. Select and use tools suitable for the task, explaining their choices, to cut, shape and join paper and card. • Use simple finishing techniques suitable for the product they are creating
Evaluate	Evaluate their product by discussing how well it works in relation to the purpose and the user and whether it meets design criteria.

Diagrams

Masking tape

Rabbit moves up and down

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

Sliders move from side to side and up and down

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

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.

Key Vocabulary	
Spelling	Definition/Sentence
Lever	a rigid bar which moves around a pivot. Levers are used in many everyday products. In this project children will use card strips for levers and paper fasteners for pivots
Mechanism	A device used to create movement in a product.
Slider	a rigid bar which moves backwards and forwards along a straight line. Unlike a lever, a slider does not have a pivot point
Slot	the hole through which a lever or slider is placed to enable part of a picture to move.
Guide or bridge	a short card strip used to keep sliders in place and control movement

Examples of a lever

An example of a slider

Sliders can be used to make objects move. In simple terms, a push or pull on one end of a rod results in the other end moving.

A moving flower picture

How simple mechanisms move:

- in a straight line
- in a straight line, backwards and forwards
- round and round
- in a curve