

What should I already know?

- Glue and sticky tape can be used for joining materials.
- To use scissors to make simple cuts.
- How to hold and use scissors safely.
- Ideas are needed to create a **design**.



What new skills and knowledge will I acquire?

- **Levers** and **sliders** can be found in existing **products** such as pop up books.
- A **slider** allows for movements from side to side or up and down. You can use a slot in paper to do this.
- A linkage connects levers to make an object move.
- You can adapt materials to allow them to move.
- Different **joints** have different effects.
- A **product** must be appealing to the person it is being made for.
- Simple **mechanisms** move:



In a straight line



In a straight line,
backwards and forwards



Round and round



In a curve



Design and Technology Knowledge Organiser

Topic: Moving Pictures Strand: Construction—Mechanisms



What will I be able to do by the end of the unit?

Design

Use what I have found from picture pop up books and knowledge of moving toys to help me to design my own background illustrations and moving toy.



Share my ideas through talking, drawing and labelling.

Make

Use the correct methods to create a slot in my paper.

Mark out and measure the length of the slot and the size of the moving toy.

Make a handle by cutting and attaching the toy to a lollipop stick which will be held to move the toy along.

Create pivot points to connect the levers or linkages which will allow the picture to move.

Evaluate

Say what I like or dislike about my moving picture.

Say how I could improve my moving picture.



Vocabulary

design



Plan or drawing to show the look and workings of a product.

evaluate

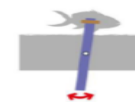


To make a judgement on how a task went.

join/attach

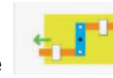
A way to link or fasten parts together.

lever



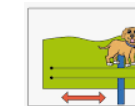
A bar which turns around a point/pivot.

linkage



A mechanism which is made by connecting levers together through joints known as pivot points.

slider



A bar which moves backwards and forwards along a straight line. Unlike a lever, a slider does not turn.

slot



The hole through which a lever or slider is placed to enable part of a picture to move

Existing products

- Lots of children's picture books use sliders and levers to make different parts move.



- Lots of children's toys are able to move by pulling or pushing them.

