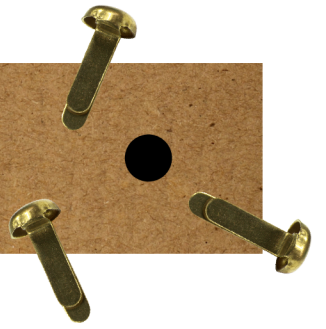




Levers & Linkages



Vikings and Dragons - Session 1:

In this project we are going to be making moving pictures using levers and linkages.

What you need:

- Card (cereal packet thickness) - enough to cut out a few strips plus a larger piece as backing.
- Split pins (paper fasteners)
- A sharp pencil
- Glue
- Ruler
- Scissors
- Hole punch or use a sharp pencil to make holes in the card
- Blu tack or a rubber

What to do:

Cut out strips of card and follow the video tutorial and templates on the following pages to make a range of mechanisms.

Key: **fixed pivot** ● **loose pivot (linkage)** ○

'Fixed pivot' means the split pin needs to go through the lever and the backing card to hold it in place.

'Loose pivot (linkage)' means the split pin only goes through the lever and so moves when you push or pull the card strip.

Use a hole puncher or make holes using a sharp pencil and a piece of blu tack or a rubber behind to protect your fingers. be careful not to punch the hole too near the edge of the card.

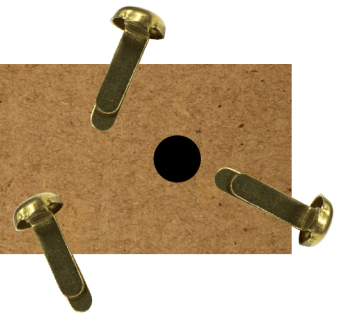
A guide is used to keep the lever and linkage mechanisms in place and control movement.

Inputs and outputs

The 'input' is where the user pushes or pulls the card strip.

The 'output' is where one or more parts move.

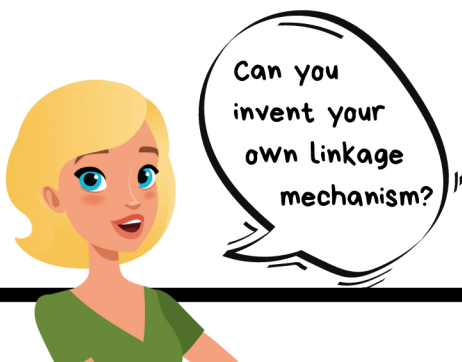
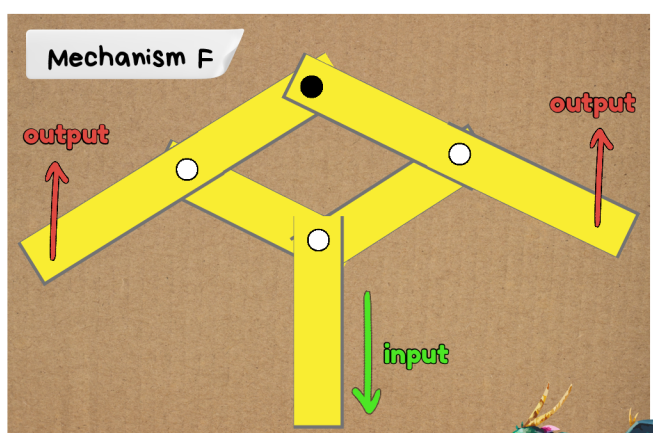
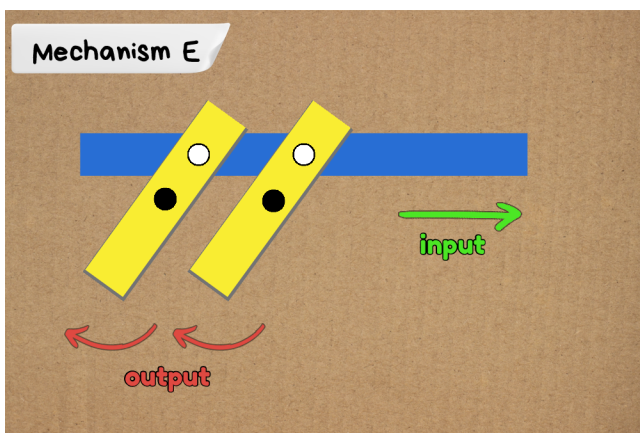
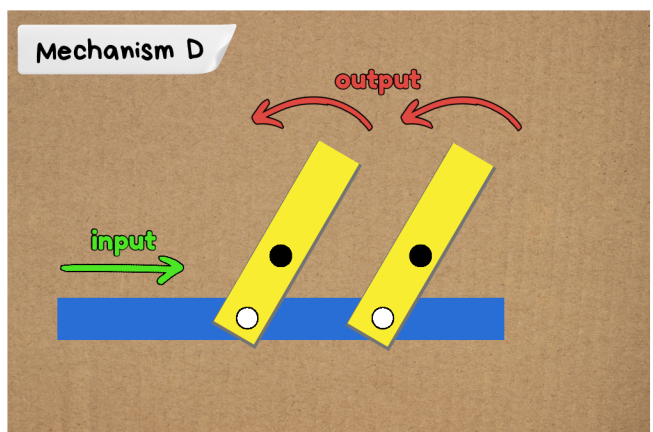
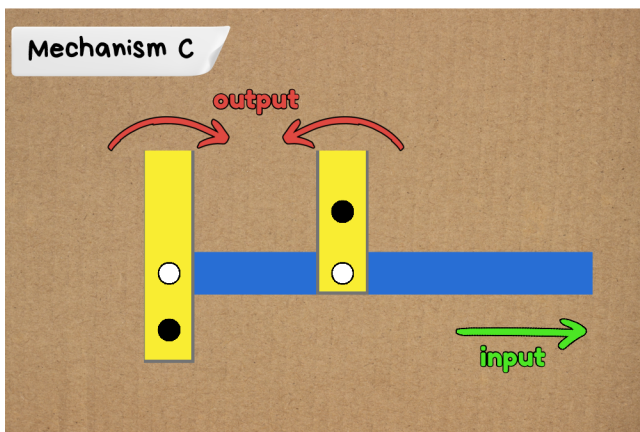
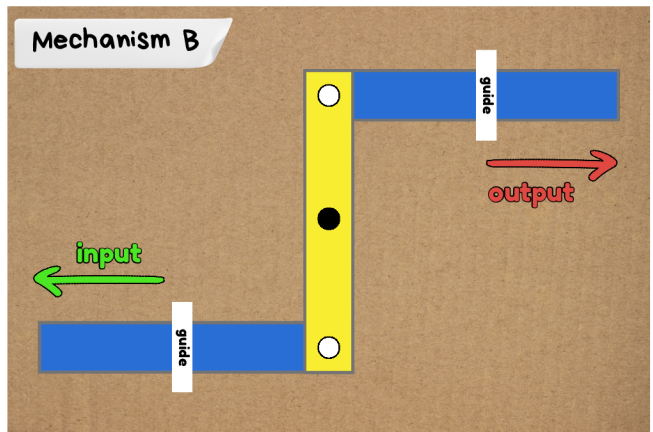
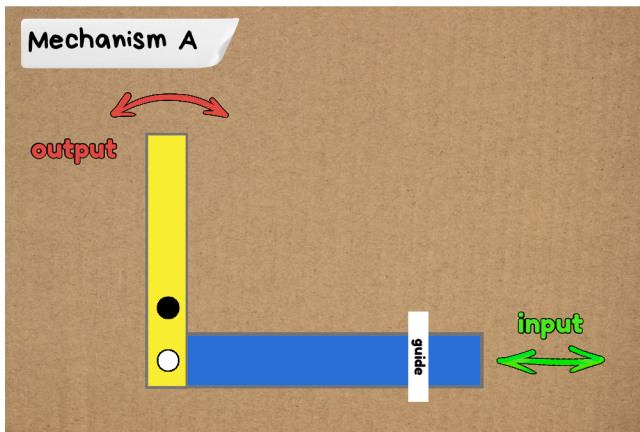




Here are some example lever and linkage mechanisms for you to try.

Key:

fixed pivot ● **loose pivot (linkage)** ○



Lever templates

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