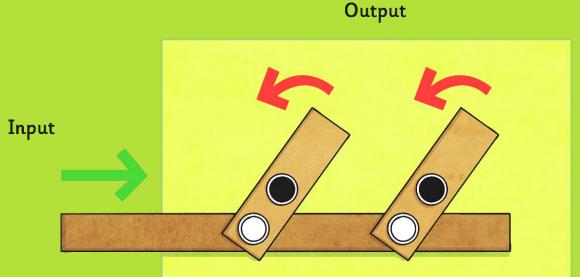
Linkages and Levers Mechanisms

0

Linkage

Year 3 Summer Term

Exploring Mechanical Systems - Inputs and Outputs



Which parts move?

How does it work? (Input and Output)

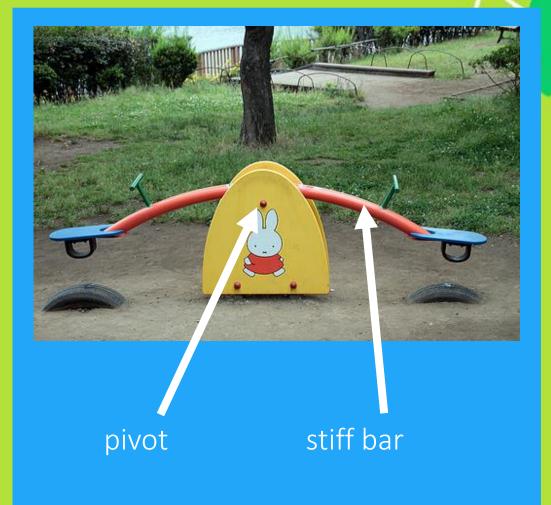
Many mechanisms take one type of **input** motion, and **output** it as a different type of motion.

In a lever and linkage mechanism, the '**input**' is where the user pushes or pulls a card strip. The 'output' is where one or more parts of the picture move.

When you push the linkage (input), it moves the two levers (output).

Making it Move **Lever -** The simplest type of mechanism is called a lever. A lever is a stiff bar which moves around a pivot. The pivot can be loose or fixed. Levers are used in many products.

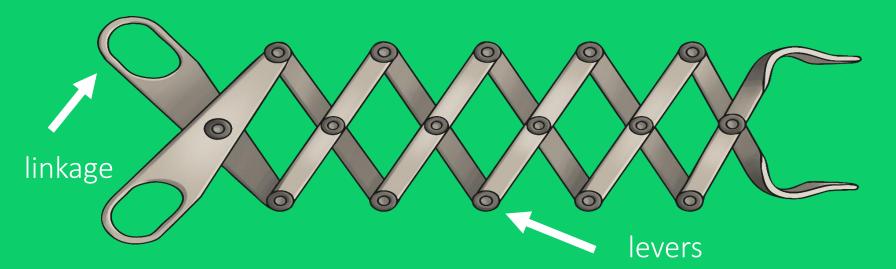
> In this project you will use card strips for levers and split pins for pivots.



Making it Move

Linkage - the card strips joining one or more levers to produce the type of movement

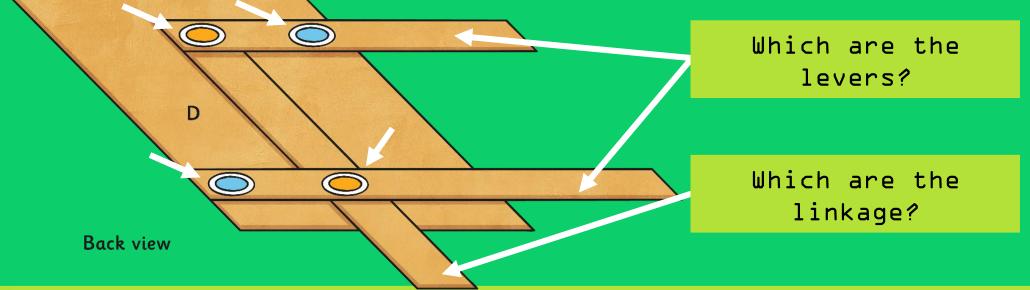
required.



Can you explain the difference between a lever and a linkage?

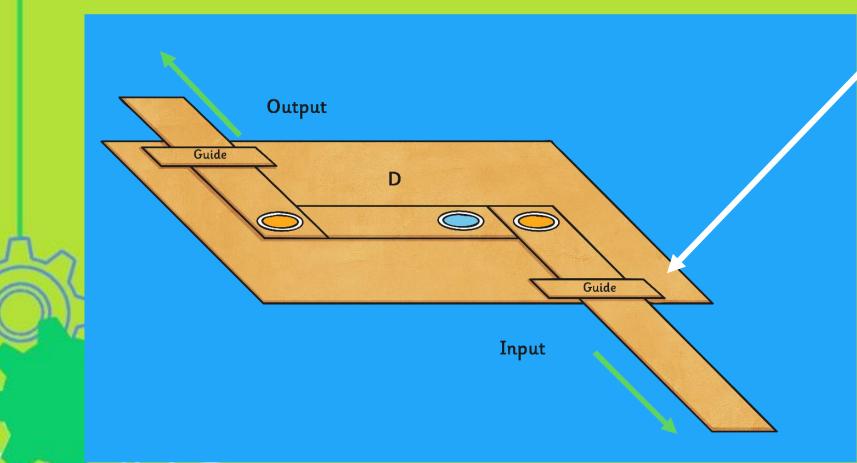
Identifying Levers and Linkages

Can you identify the levers and linkages? Discuss with your group and then click on the questions to find out the answers



Loose pivot - a split pin that joins card strips together. Fixed pivot - a
split pin that joins
card strips to the
backing card.

Identifying Levers and Linkages



Guide - a guide is used to keep lever and linkage mechanisms in place and control movement.

Identifying Levers and Linkages

Which are the levers? Which are acting as the linkages?

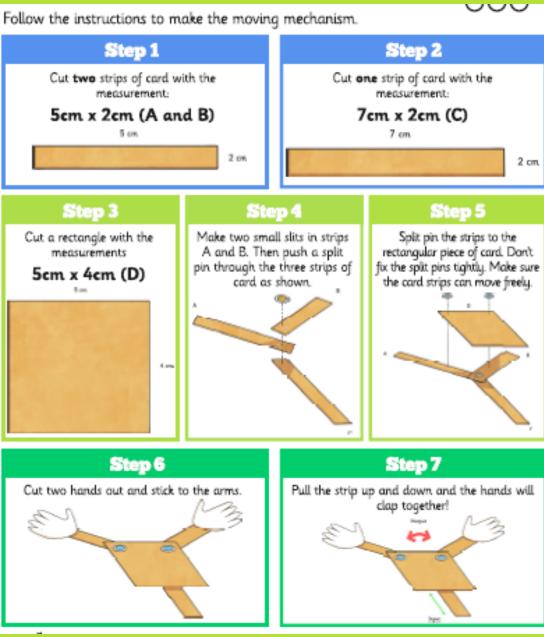
Can you find the loose pivots- a split pin that joins card strips together.

Can you find the fixed pivots - a split pin that joins card strips to the backing card.

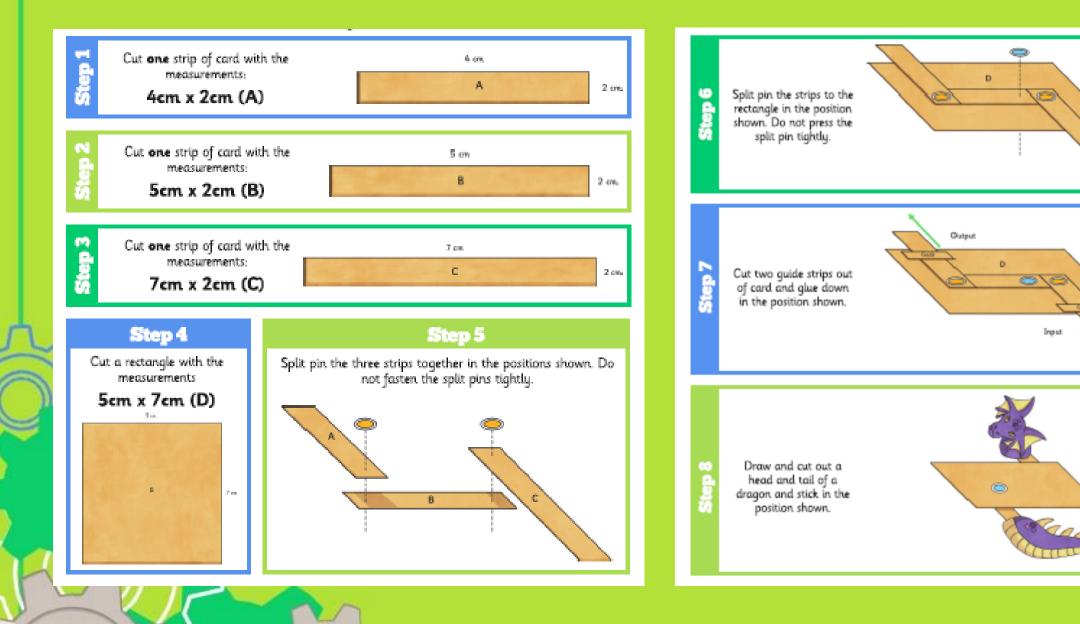
Let's Make

Follow the instructions to make a mechanism of your own.

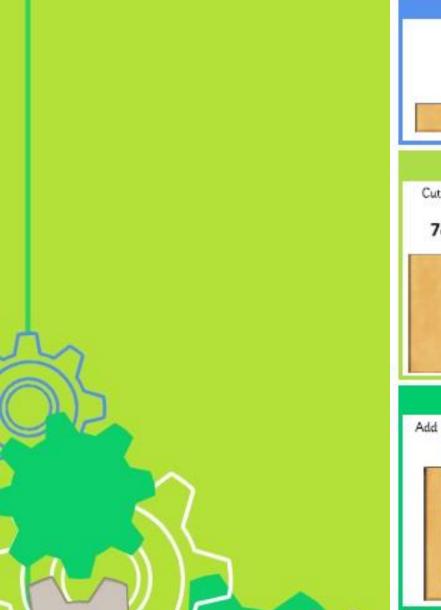
Clapping Hands

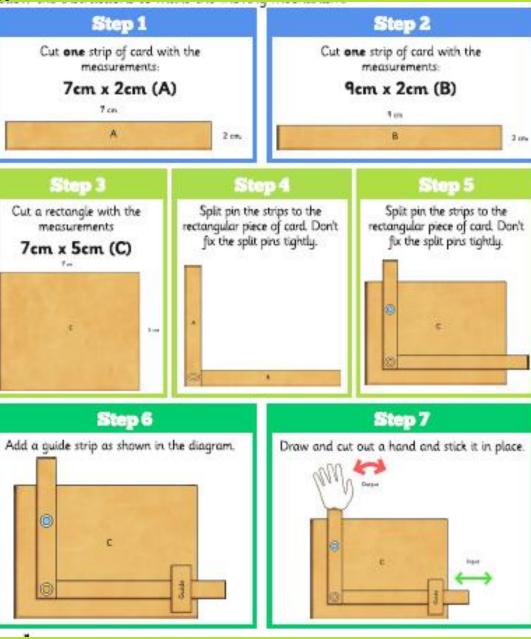


Moving Dragon

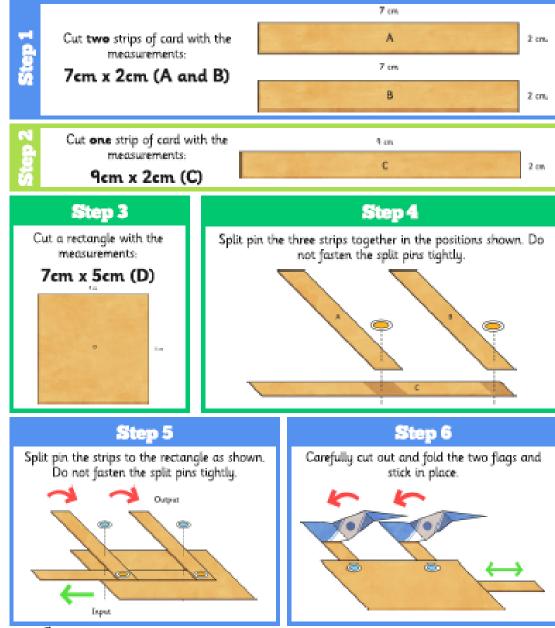


Waving Hand

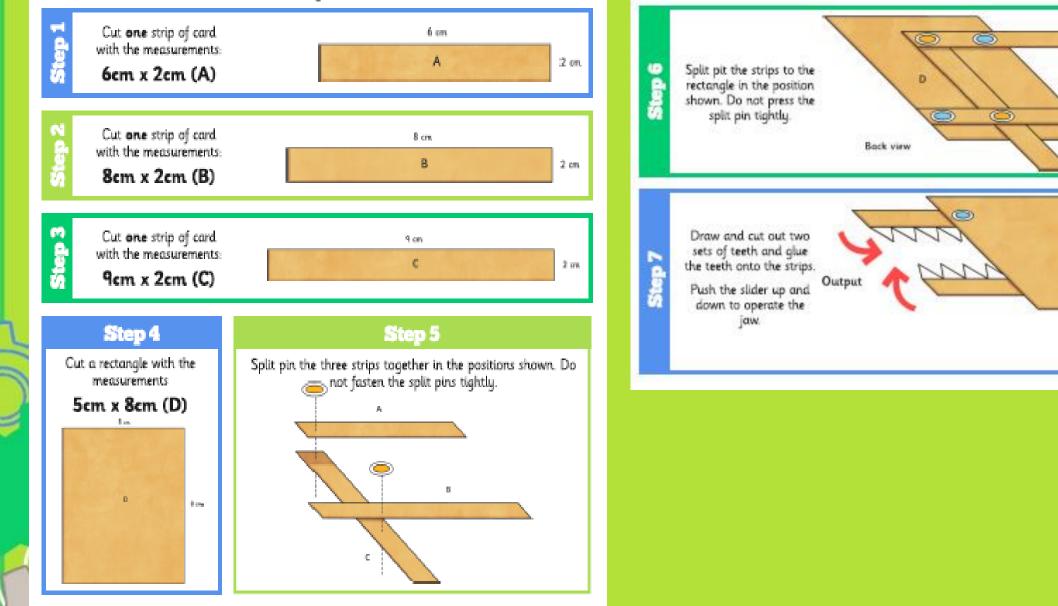




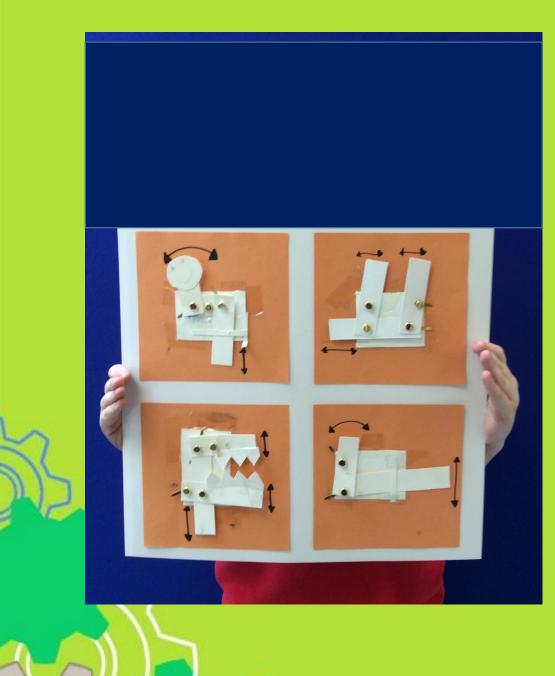
Moving Flags

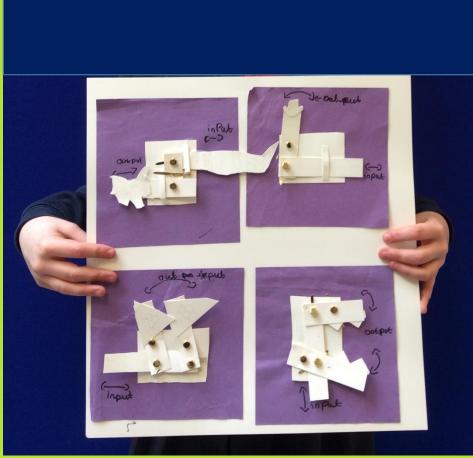


Snapping Crocodile

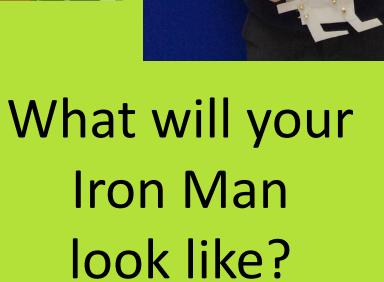


Input









edroom

