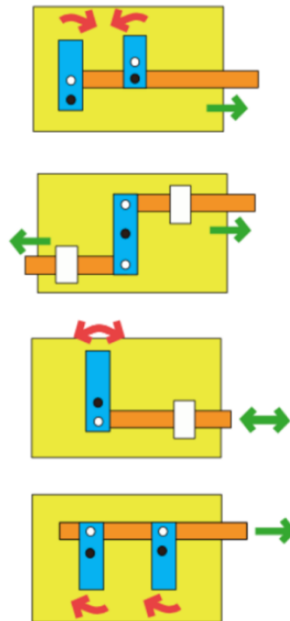


## Key vocabulary

|                 |                                                                                          |
|-----------------|------------------------------------------------------------------------------------------|
| fixed pivot     | a paper fastener that joins card strips to the backing card                              |
| loose pivot     | a paper fastener that joins card strips together.                                        |
| linkage         | the card strips joining one or more levers to produce the type of movement required.     |
| system          | a set of related parts or components used to create an outcome.                          |
| input movement  | where the user pushes or pulls a card strip.                                             |
| output movement | where one or more parts of the picture move.                                             |
| linear          | in a straight line                                                                       |
| design brief    | a document explaining what is needed to complete the project, outlining the requirements |

### Teaching aids to demonstrate levers and linkages

- Fixed pivot
- Loose pivot



## Key knowledge

There are different ways to combine levers and linkages using fixed and loose pivots and these create different movement.

Systems have an input, process and an output.

Lever and linkage mechanisms usually produce oscillating or reciprocal movement



Guides or bridges are used to keep the lever and linkage mechanism in place.

We are building on our knowledge from year 1 making pirate pictures

This will help us learn in Year 5 when we use cams to make a model of the planets