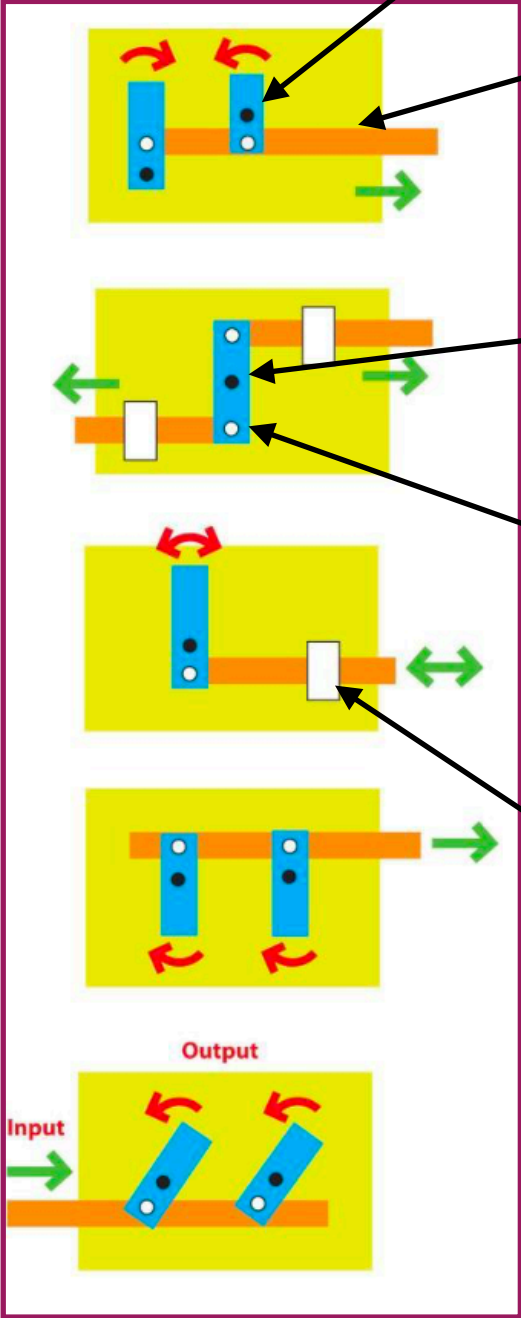




Year 3
DT - Mechanisms: Levers and linkages

Key vocabulary	
Mechanism	Parts in a machine that work together to create movement
Lever	A rigid bar that moves around a pivot
Linkage	A rigid bar that moves backwards and forwards along a straight line
Slot	The hole that a lever or slider goes through to hold it in place
Guide or bridge	a short card strip used to keep sliders in place and control movement
Loose pivot	A paper fastener that joins card strips together
Fixed pivot	A paper fastener that joins card strips to the backing card
System	A set of related components used to make an outcome e.g. to make a picture move
Rigid	Can't bend, not flexible



Lever





Linkage

Loose pivot

Fixed pivot

Guide or bridge

Lever and linkage mechanisms usually produce oscillating or reciprocating movement:

-  Linear - in a straight line
-  Reciprocating - backwards and forwards in a straight line e.g. a slider
-  Rotary - round and round e.g. a wheel, cam, pulley, gear wheel
-  Oscillating - backwards and forwards in an arc e.g. a lever

Making a pop-up from a small section of a recycled box:



1. Cut a slice off a small box.
2. Glue two sides to the paper.
3. Stick a picture to pop up on the front.