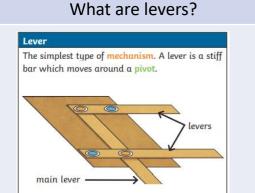
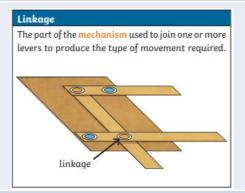




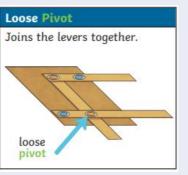
Levers and Linkages

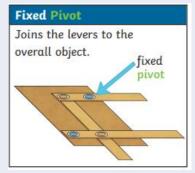


What are Linkages?



What are Pivots?





Levers are rigid bars that move around a pivot.

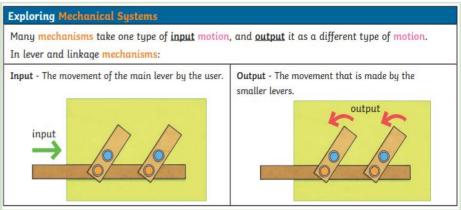
When you push or pull a lever, it creates a motion that moves something that is attached to that lever by a pivot. Levers are used in many everyday products. Scissors are a good example of a lever and pivot.

Linkages are a group of levers that are joined together.

Where are levers and linkages used?



Inputs and Outputs





Types of Motion in Mechanical Systems

A device used to create movement in a product. ever and linkage mechanisms usually produce oscillating or reciprocating movement

Rotary Motion

Turning round in a circle like a wheel



Moving in a straight line like a paper trimmer



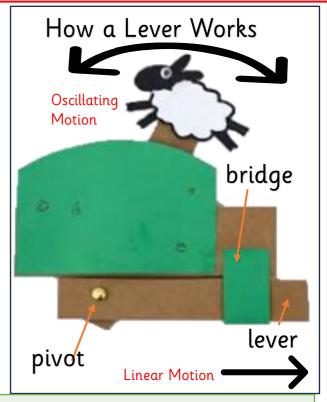
Reciprocating Motion

Moving forwards and backwards in a straight line like a saw



Oscillating Motion

Swinging from side to side like a pendulum in a clock



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Mechanism	Something that uses related components which act together to create a movement
Motion	Movement from one place to another
Pivot	To turn on a central point
Lever	A push or pull control that is the input to the mechanism. Pushing or pulling will result in movement in the output
Linkage	The card strips joining one or more levers to produce the type of movement required
Slot	The hole through which a lever is placed to enable part of a picture to move
Guide /bridge	A short card strip used to keep lever and linkage mechanisms in place and control movement.
Product	Something that we use in every day life.