

Examples of levers and linkages	Types of movement
<p>● Fixed pivot ○ Loose pivot</p> <p>When you push the card strip (input movement), the two levers move (output movement).</p>	<p>Lever and linkage mechanisms usually produce oscillating or reciprocating movement:</p> <p> Linear - in a straight line</p> <p> Reciprocating - backwards and forwards in a straight line e.g. a slider</p> <p> Rotary - round and round e.g. a wheel, cam, pulley, gear wheel</p> <p> Oscillating - backwards and forwards in an arc e.g. a lever</p>

Vocabulary	
Mechanism	a device used to create movement in a product
Lever	a rigid bar which moves around a pivot
Linkage	the card strips joining one or more levers to produce the type of movement required
Fixed Pivot	a paper fastener that joins card strips to the backing card
Loose Pivot	a paper fastener that joins card strips together
Slot	the hole through which a lever is placed to enable part of a picture to move.
Guide or Bridge	a short card strip used to keep lever and linkage mechanisms in place and control movement
System	a set of related parts or components used to create an outcome
Input	pushing or pulling the lever
Process	what happens to the linkage when the lever is moved
Output	the end result of the linkage. The part that moves
Linear	moving in a line
Rotary	turning around on an axis
Oscillating	swinging back and forth
Reciprocating	moving forward and back in turn
User	the person in mind when designing a product
Purpose	the reason for making a product
Function	what a product does
Prototype	an original model on which later stages or forms are based or developed
Design Criteria	the precise goals that a project must achieve in order to be successful
Innovative	produced through or resulting in innovation; new and inventive
Appealing	attractive or pleasant to look at
Design Brief	the statement a client gives to a designer outlining what they want their product to be like

Health and Safety	
Pay close attention when using sharp tools	Stop what you're doing as soon as the teacher or your partner says "stop".