

## Knowledge Organiser - Levers and Linkages (Design & Technology Year 4)

Key Vocabulary	Definition
Mechanism	
System	A set of related parts or components used to create an outcome. Systems have an input, process and an output.
Lever	A rigid bar that moves around a pivot.
	Strips joining one or more levers to produce the type of movement required.
Slot	The hole through which a lever is placed to enable a part to move.
Guide or Bridge	
Loose Pivot	A fastener that join linkages to levers or other linkages.
	A fastener that joins levers to the structure of the product.

**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



WILLIAM HARDING SCHOOL  
Aim High... Work Hard... Be Kind...

**Nets for cubes**

**Cuboid net**

**Hexagonal prism net**

**Ribbing** – glue layers of straws between layers of card