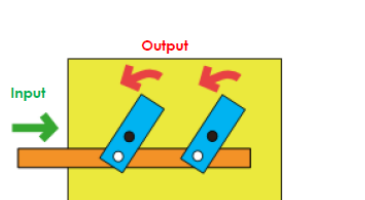
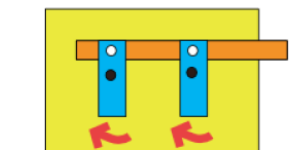
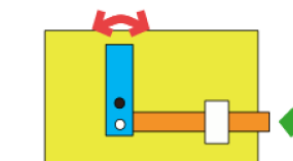
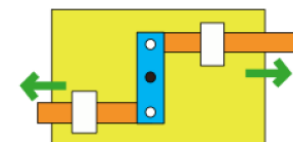
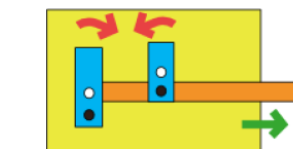
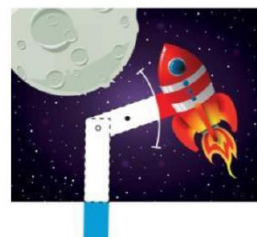


Key Vocabulary

Key Word	Definition
Mechanism	A device used to create movement in a product.
Linkage	Card strips joining one or more levers to produce the type of movement required.
Bridge	A short strip used to keep sliders in place to control movement.
Process	A series of actions or steps taken in order to achieve something.
Input	The movement put into a mechanism.
Output	The movement produced by a mechanism in a product.
Linear	Movement in a straight line
Rotary	Movement that moves round and round (in a circle) e.g., wheels/gear
Oscillating	Forwards and backwards movement in an arc - e.g., levers.
Reciprocating	Forwards and backwards movement in a straight line - e.g., sliders.
Prototype	An early sample or model of a product built to test

Y3 Summer Term Mechanisms Levers and Linkages (Evaluate)



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

● Fixed pivot

○ Loose pivot

Learning Sequence

1

Evaluate existing levers and linkages and their purpose.

2

Use annotated drawings to explain a design.

3

Use a step-by-step plan to create a lever and linkage mechanism.

4

Consider improvements for my mechanism.

5

Apply improvements to my design.

6

Evaluate against design criteria with support.