



I know...

... pop up mechanisms were first used in books to do with medicine and science.

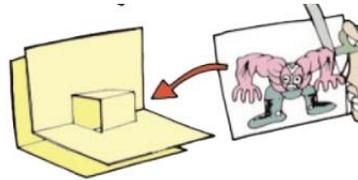
... some books can have moving parts, designed to make them more interactive for younger children.

... paper can be used to make moving mechanisms and different ones can be used to produce different movements.

... techniques to make simple moving parts using: levers, sliders, box folds, diagonal / open mouth folds, rotators and springs.

... how to strengthen, stiffen and reinforce more complex structures.

... how to use different methods of joining and which is most appropriate to the mechanism e.g. split pins to make pivots for a lever.



Simple mechanisms move:



in a straight line

Horizontal



in a straight line, backwards and forwards



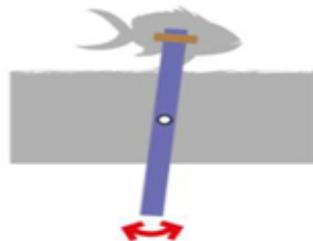
round and round

Circular



in a curve

Oscillating



Technical Vocabulary

Box fold - a type of simple cut and fold to make part of a piece of paper lift away from the page.

Concertina fold - a way of folding paper over and back to create a zig zag pattern and shape.

Diagonal/Open mouth fold - a type of cut and folding techniques that causes a 'mouth shape' pop up.

Flap - a piece of paper attached at one end that can be lifted or opened.

Lever - a mechanism that uses a pivot to move the object at the end in an arc horizontally or up and down.

Mechanism - a system of parts that work together.

Oscillating - moving on an arc - like a pendulum.

Pivot - the central point, pin, or shaft on which a mechanism turns or oscillates.

Pop-up - part of page that lifts away from it on opening.

Protrude - to stick out above the edge of something.

Rotator - a mechanism that causes something to move in an arc or in a circular way.

Slider - a mechanism that produces either vertical or horizontal movement.

Spring - a mechanism that can be pressed or pulled to cause movement.

Slot - a cut made to place a slider or lever through. **Tab** - a small flap or strip of material attached to or projecting from something, used to hold, fasten, or manipulate it.

