

Year 1 - Design Technology – Mechanisms (Pop ups and simple card levers)

Key Learning

We will join appropriately for different materials and situations e.g. glue, tape. We will mark out materials to be cut using a template. We will be able to fold, tear and cut paper and card, cutting along lines, straight and curved. We will experiment with levers and sliders to find different ways of making things move. Use pictures and words to show what I want to make. Use drawings to record ideas as they are developed. Discuss my work as it progresses. Select materials from a limited range. Select and name the tools needed to work the materials. Explain what I am making and why. Talk about my design as they develop and identify good and bad points.

Key Questions	Key Vocabulary
What movement does this lever make?	Rigid – something that is strong and will not bend
What happens if I change the length, position, size, shape, direction?	Pivot – a fixed part that holds a lever in place as it turns
Which lever will give me the movement I want?	Lever – a rigid bar which moves around a pivot
How are the fastenings hidden?	Slider – a rigid bar that moves backwards and forwards
Does anything help the lever move more smoothly without getting stuck?	Flap – folded cover that can be lifted up to show a hidden area
What could we make? What could we use it for? Who is going to use it?	Slot – a wide thin line that allows a slider to move
How can I improve my design?	Mechanism – a device used to create movement in a product

What will we be making?

- A picture with moving parts to illustrate fire-fighting apparatus.
- A picture with moving parts to illustrate a burning building during the Great Fire of London.
- A picture with moving parts to illustrate people escaping across the River Thames.
- A picture with moving parts to illustrate the London's burning rhyme.
- A Christmas card with moving parts.
- A page with moving parts from a class book, to illustrate The Great Fire of London.

