KNOWLEDGE ORGANISER

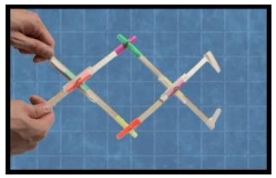
DESIGN AND TECHNOLOGY	MOVING STRUCTURES	UKS2

Cross curricular links

Art - Draw and sketch existing products to investigate and analyse how well they are made

Maths – Measuring materials to the required length needed.

Pictures/photos relevant to topic



Key skills

- Understand how mechanical systems work [e.g. gears, pulleys, cams, levers]
- Draw and sketch existing products to investigate and analyse how well they are made
- Use mechanical systems in products [e.g. gears, pulleys, cams, levers]
- Develop design criteria to inform the innovative and functional design of a product that are fit for purpose
- Select from a wide range of materials/components according to aesthetic properties

Key Vocabulary/definitions

Aesthetic - Refers to the way a product looks and feels

Gears - A toothed wheel that works together with other gears to alter the speed of the driven gear wheel

Pulleys - A simple machine that uses grooved wheels and a rope to raise, lower or move a load

Levers - A simple mechanism that uses a bar to pivot around a fixed point

Key facts

Useful websites

https://www.youtube.com/watch?v=1kC4uX2BoDw

https://www.bbc.co.uk/bitesize/articles/z2gfcxs