

Design & Technology

All children – regardless of gender, starting point or background – will have the opportunity to engage with a high-quality design technology education. They will be equipped with the knowledge, skills and vocabulary to use creativity and imagination to design and make products that solve real and relevant problems in a variety of contexts. We intend to inspire a sense of enjoyment and curiosity about design technology.

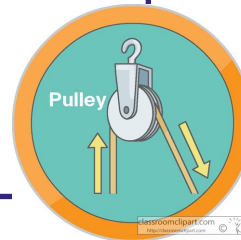
Mechanisms - Sliders, Leavers & Pulleys

Summer 2

Igniting Prior Knowledge:

Year 1 (Construction: Freestanding Structures - Building a New House for the Three Little Pigs)

- There are different techniques use to join different materials e.g. taping and gluing.
- A freestanding structure stands on its own.
- Freestanding structures can be made stronger, stiffer and more stable.
- Some materials have a significant environmental impact.



Key Vocabulary:

- stable,
- mechanisms,
- join,
- glue,
- slider,
- movement,
- lever,
- stiffening,
- components,
- structures,
- model,
- mechanism,
- pivot,
- pulley

New Knowledge:

- A mechanism is a device used to create movement in a product.
- A slider is a rigid bar that moves backwards and forwards along a straight line.
- A lever is a rigid bar that moves around a pivot.
- A slot is the hole which a lever or slide is placed to enable part of the picture to move.
- A pivot is the point at which the mechanism turns.
- A pulley is a simple machine used to change the direction of an applied force.
- Sliders and levers are types of mechanisms.
- Different mechanisms produce different types of movement.
- Technology can be used to construct and operate different.

