



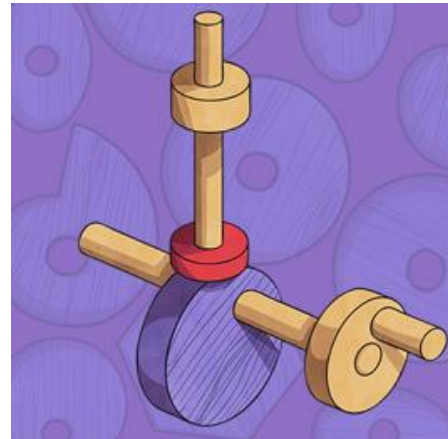
Moving Toys

In DT this term, we will be combining our new science topic 'Forces and Motions' with our DT knowledge to create our very own moving toys.

During this topic, children will be:

- Investigating toys with moving cam mechanisms.
- Investigating different types of cam mechanisms,
- Investigating ways of strengthening structures for a moving toy.
- Designing and following a design to create a moving toy, with a cam mechanism.
- Evaluating their own moving toy.

Different types of cams can create different movements. (see below)



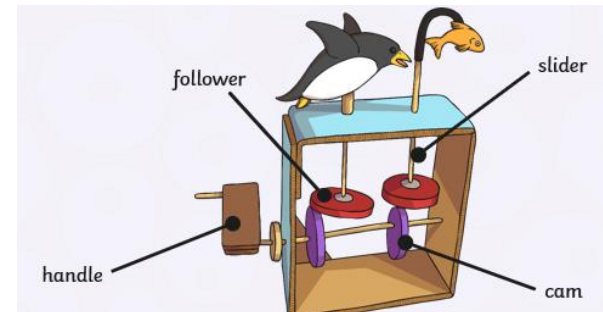
A cam mechanism

What is a 'Cam mechanism'?

A cam mechanism is made up of three components:

- a cam
- a slider
- a follower

The mechanism causes components to move. Cams can be made from metal, plastic or wood.



Key words/ vocabulary:

Cam: This is a piece of specifically shaped material, which is fixed to a rotating shaft.

Slider: A rigid bar that moves.

Follower: These are mechanisms that are in contact with the cam.

Dowling: Thin pieces of wood.

Linear movement: This is when it moves in a straight line, up and down.

Rotary movement: This is when it is turning around in circle, like a wheel turning.



round



egg-shaped



ellipse



eccentric



hexagon



snail