

## Saint Elizabeth's Knowledge Mat

Year: 5 Subject: D&T

**Topic:** Moving Toys – Autumn Term

Focus: Cam Mechanisms

## 1. What I Know Already

How to create models with moving parts (Year 1)

How wheels, axles and chassis' work (Year 2)

The five different types of bridge and how their structure affects their stability (Year 3)

How to produce step by step plans to quide the making of a product (Year 4)

## 2. Key Concepts

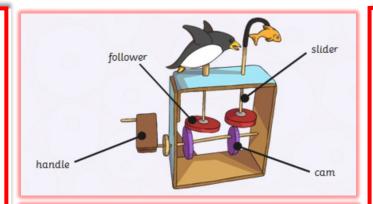
A cam mechanism is made of up of three components: a cam, slider and follower.

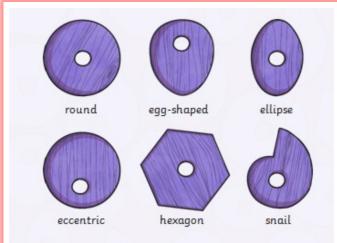
The mechanism causes components to move. Cams can be made from metal, plastic or wood,

A cam mechanism is made up of a cam, follower, axle, slider and handle.

Cams come in different shapes which **create** different motions.

Cam mechanisms create linear and rotary movements.









## 3. Key Vocabulary

Mechanism	An assembly of moving parts which perform a complete functional motion.
Cam	A slide or roller attached to a rotating shaft to give a particular type of motion.
Slider	Part of the cam mechanism which is attached to the follower.
Follower	Mechanism in contact with the cam.
Linear Movement	Moving in a straight line, up or down.
Rotary Movement	Turning around in a circle, like a wheel turning.
Axle	A rod or spindle through the cam.
Reinforcement	The act of strengthening a structure.