

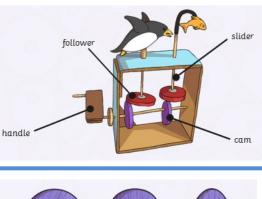
St Leo's and Southmead Catholic Nursery and Primary School

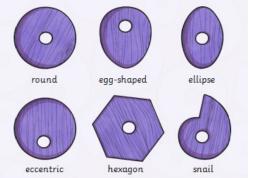


Design Technology Knowledge Organiser

Cam Mechanisms

<u>Key Vocabulary</u>		
Vocabulary	<u>Definition</u>	
Mechanísm	An assembly of moving	
	parts which perform a	
	complete functional	
	motion.	
Cam	A slíde or roller attached	
	to a rotating shaft to give	
	a partícular type of	
	motion.	
Slíder	Part of the cam	
	mechanism which is	
	attached to the follower.	
Follower	Mechanism in contact	
,	with the cam.	
Línear	Moving in a straight line,	
movement	up or down.	
Rotary	Turning around in a	Ľ
Movement	círcle, líke a wheel	
Movement	turning.	
	currurg.	
Axle	A rod or spindle through	
	the cam.	
Score	Using the blade of the scis-	
	sors to cut a grove in hard	
	cardboard.	





<u>Currículum Línks</u>

- Technology: Search the internet for examples of cam mechanisms used in moving toys
- Maths: Measuring accurately in cm.

Amazing Activity

Investigate how the shape of the cam affects the movement of the toy.

<u>Skílls</u>

Research products to inform the design of their own innovative product.

Make careful and precise measurements.

Autumn

Term

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Produce step by step plans to guide the making of the product.

Understand how a cam mechanism creates movement and how the shape can alter this movement.

Evaluate their product and how it could have been strengthened.

Key Concepts

- A cam mechanism is made 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 mechanísms create línear and rotary movements.