

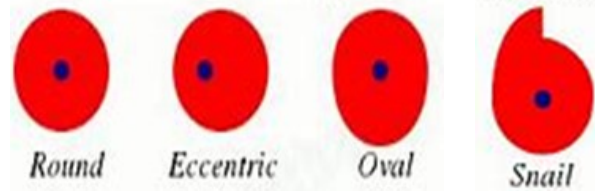
Design Technology

Year 5 and 6 - Cam Mechanisms

Key Vocabulary

Vocabulary	Meaning
CAM	A rotating shaped disc to convert circular into linear motion.
Mechanical system	A set of related parts or components used to create movement.
Doweling	A cylindrical shape made of wood, plastic or metal.
Evaluate	To form a critical opinion or judgement.
Linear	Along a line in a single direction.

Common Types of CAMS



Sticky Knowledge

- Mechanical systems have an input and an output.
- A CAM changes the direction of movement.
- A snail CAM can cause a sudden drop.
- An oval CAM causes a gradual rise and fall.



Resources

- Pencils, ruler and rubber.
- Cams, doweling, wheels, sand paper, shoe box
- Card board, recycled materials, coloured paper, textiles for decoration.
- Drills
- Hand saw



Key Skills

- To design a toy with reciprocating parts using a cams mechanism.
- To evaluate the product against the original design.
- To use equipment safely.
- To measure with accuracy.
- To create a product for a purpose.
- To sketch and label your design.