

# Design Technology – CAM toy unit – Year 5 Spring Term

## Prior Learning

Moving pictures Y1  
Wind up mechanisms y2

## Vocabulary

**Motion** – the action or process of moving or being moved

**Linear motion** – motion along a straight line

**Mechanism** – a system of parts working together in a machine

**Circular cam** – smooth and steady up and down

**Pear cam** – moves smoothly up and down then pauses

**Snail cam** – slow steady rise then a sudden drop

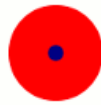
## Jobs in design

Lego model designer

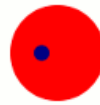


## Cam Mechanisms

### Some common types of cams



Round



Eccentric



Oval



Elliptical



Heart



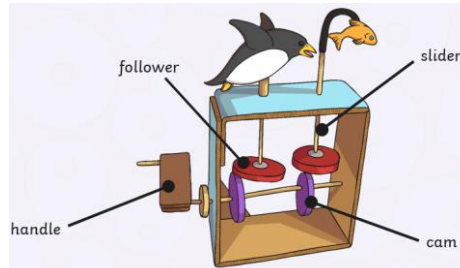
Hexagonal



Star



Snail



## Materials and Consumables

Dowel

Cardboard box

Cams

Cardboard

## Tools

Pull saw



Bench hook



Hot glue gun



Drill



## Can I answer?

- What movement does a circular cam make?
- What movement does a Snail cam make?
- Can you label a parts of a cam toy?
- How can you keep safe using saws and drills?