

Year 6 Summer 2 Design and Technology – Graduation Frames

Key facts

- A cam mechanism is made up of two main components – cam and follower
- A cam is a rotating disk that is shaped to convert rotary motion in linear motion
- A follower is a component that follows the movement of the cam
- Cams can be made out of metal, plastic, cardboard, foam sheets or wood
- Dwell – a slight regular pause in the motion of a machine

Toys with cams

moving mouth and tail



moving mouth and tail



moving wings



whole body moves

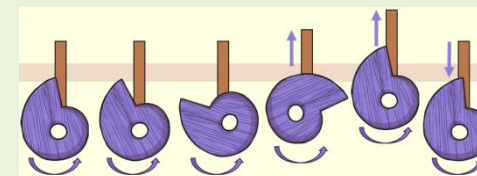
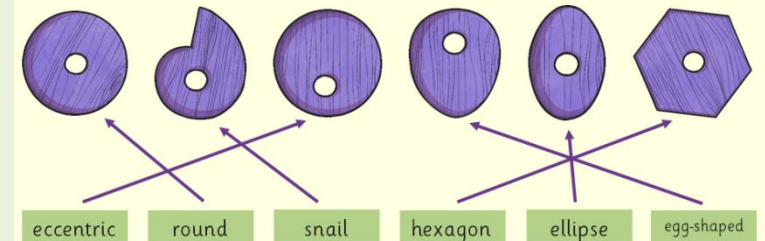


moving heads up and down

Vocabulary

- Design criteria
- Functional
- Aesthetic
- Materials
- Components
- Cam
- mechanical systems
- mount
- framework
- finish
- join
- prototype
- evaluate
- peer

Styles of cams



The follower dwells then rises up slowly until the cut out part.

The follower will dwell for half the circle and rise up at the pointed part of the cam.

