

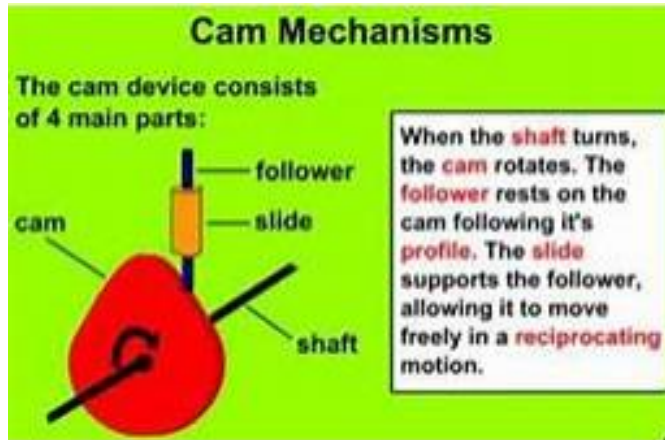


## Y6 Knowledge Organiser Automata Toys - Mechanisms



### Key Knowledge

What is a cam used for? A cam is a rotating or sliding piece in a mechanism. It changes rotary motion to linear motion

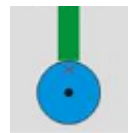
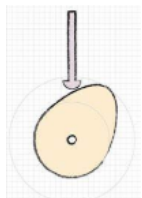


There are also different types of Cams

Egg-shaped,

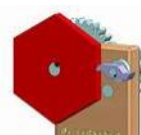
off-centre

round



Eclipse

hexagon

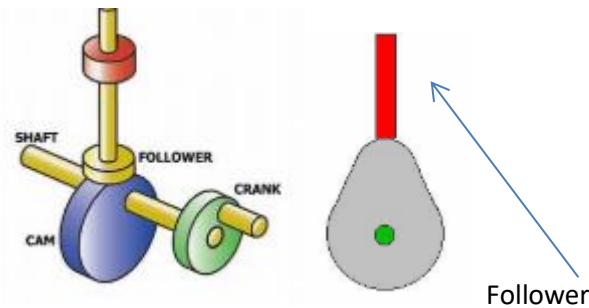


### Key Knowledge

#### A Follower

A follower is a machine part that moves by being pushed or pulled by another part. The follower is level for most of the cam's rotation, then is suddenly pushed up at regular intervals.

Eg of followers



### Vocabulary

- Cams
- Jelutong
- Dowel
- Product
- Levers
- Linkages
- Components
- Axle
- Automata
- Follower
- Reciprocating
- Shaft
- Linear
- Rotary

#### Mechanisms- automata toy

I can cut the jelutong pieces with accuracy, using tools and equipment safely.	
I can explain that saws have sharp teeth and can be dangerous if not used properly.	
I can cut all of the pieces with accuracy.	
I can assemble the frame securely.	
I can experiment with a range of cams and decide on the most effective for my design ideas.	
I can show my design ideas through labelled sketches.	
I can create the appropriate component parts and assembling them using the correct methods.	
I can choose the correct glue according to the materials being joined and the speed at which the glue needs to dry.	
I can evaluate what was good about my design and how I could improve it.	