

DT PROJECT

A cam mechanism is a linkage system which is a way to convert rotary (circular) movement to linear (straight) movement.

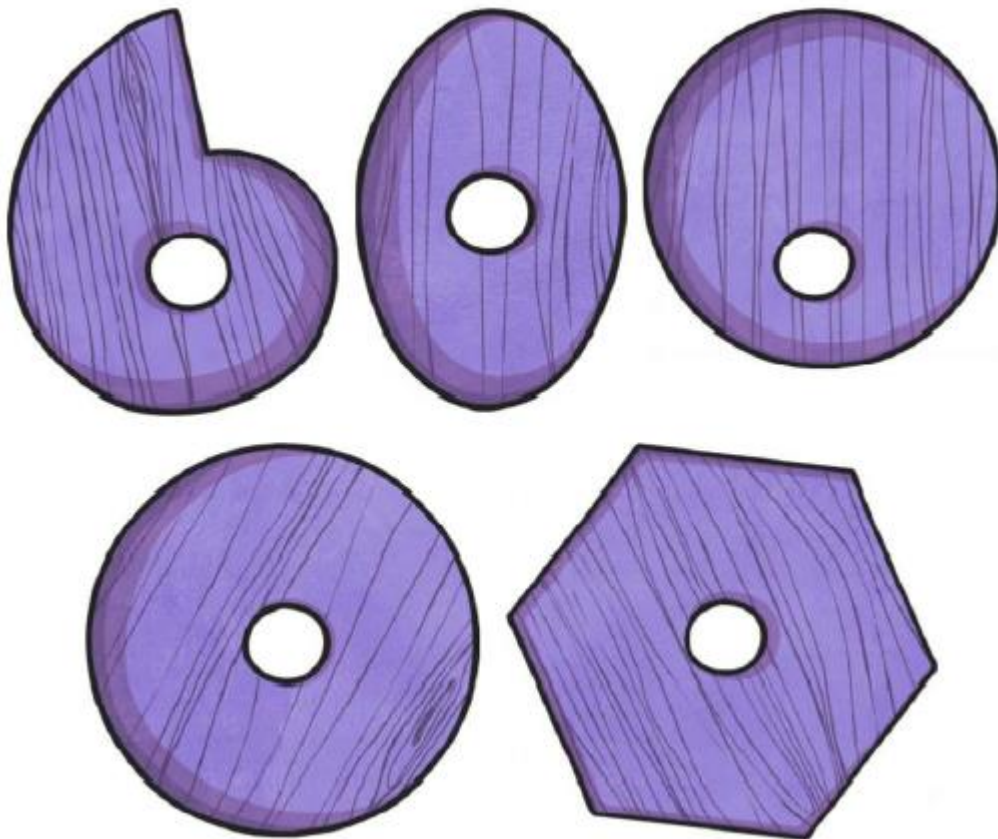
Have a go at experimenting with your own cams. A template, instructions on how to create and a results table are shown below. Enjoy!

A few tips to help – if you can't print these you can copy them straight on to card (old boxes, cereal cartons etc.). They do not need to be exactly the same to give you an understanding of how they move.

Alternative resources – you could swap:

Double sided tape for glue (allow drying time)

Split pin for a cocktail stick (ask a grown up to cut the sharp ends off) or use a pencil.



Follow the diagram to make your own example of a simple cam mechanism.

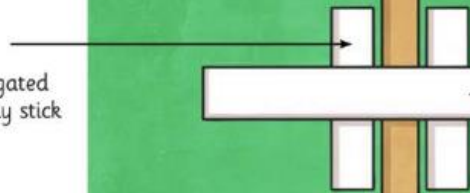


Lolly Stick



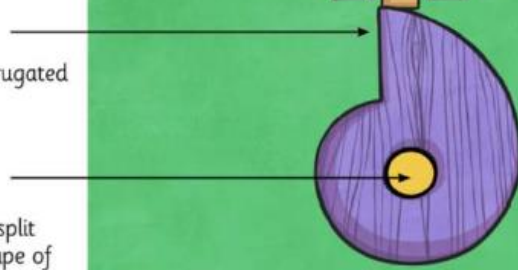
Guides

Made from thick corrugated card. This keeps the lolly stick in place.



Shaped cam

Made from a thick corrugated card wheel.



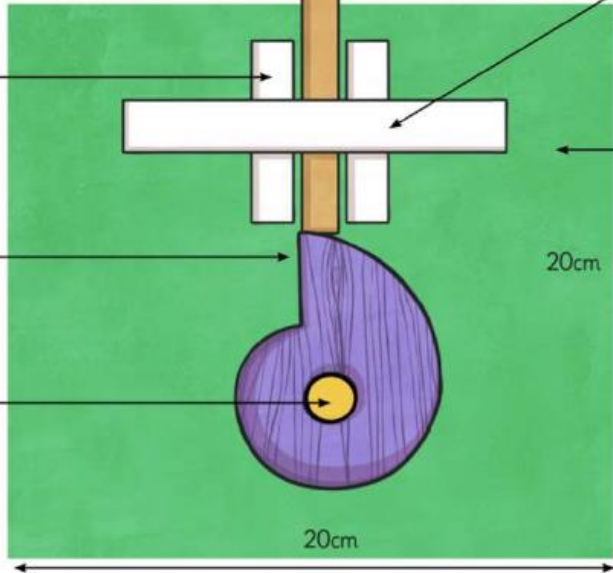
Split pin

You can reposition the split pin and change the shape of the cam.

Card strip

Made from thin card. Attach this strip of card over the top of the guides to allow the lolly stick to move in its place.

Thick card backing



Sticky Tape

Double sided sticky tape should be used to join the card to the background.

Remember

Hold the mechanism upright when you are testing it so that gravity allows the follower to drop down.

Cam Shape	Describe What Happened
	
	
	
	