

Design and Technology

Skills

Recap from Year 3:

Setting up your sawing station safely

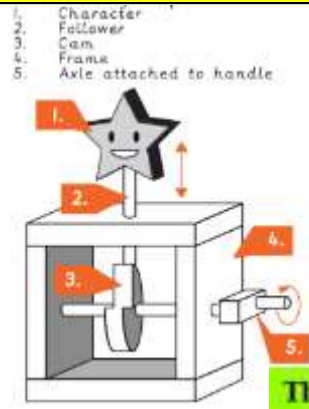


1. Fix the bench hoop to your table using the g clamp.
2. Hold the saw in one hand with your thumb on the top.
3. Use the other hand to push the wood gently up against the bench hook.
4. Pull the saw back three times.

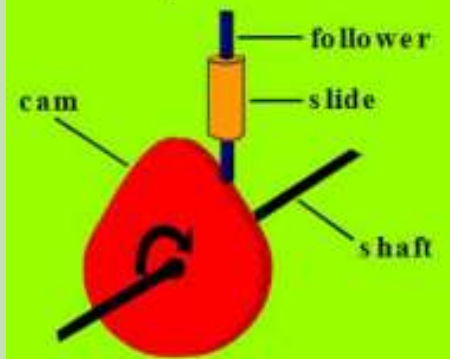
Gently, saw backwards and forwards, keeping the saw straight.

Moving Toys

Knowledge



The cam device consists of 4 main parts:



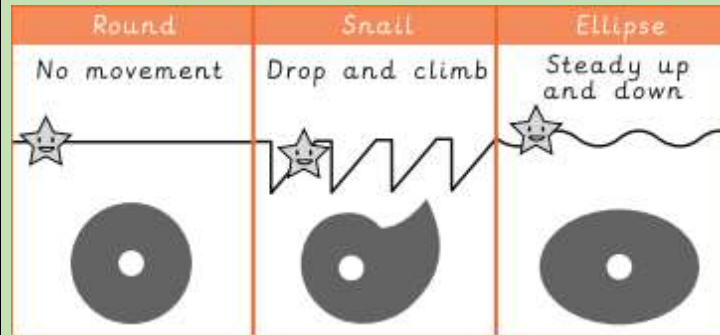
Vocabulary

- **Cam** – A mechanism that changes one sort of movement to another. Types of Cams: **Snail, off centre, peg, pear.**
- **Follower** – the device that follows the movement of the cam: a lever or a slider
- – snail, off centre, peg, pear shaped
- **Rotary motion** – an object moving on an axis of its own.
- **Linear motion** – motion in a straight line
- **Oscillating motion** – the to and fro movement.
- **Reciprocating motion** – repetitive up and down motion.
- **Shaft**
- **Crank**
- **Housing**
- **Framework**



Using a drill

1. Clamp the piece of wood to the workbench using a G clamp. Place another piece of wood underneath just in case the drill bit passes through into the work top.
2. Hold the drill vertically with one hand and slowly turn the handle clockwise with the other.
3. You might like to ask a friend to stand to the side to check you are keeping the drill vertical.



Recall: Can you remember what these words mean?

- axles
- mechanisms,
- levers and sliders
- mock up
- slider
- lever
- junior hacksaw
- bench hook
- G clamp

