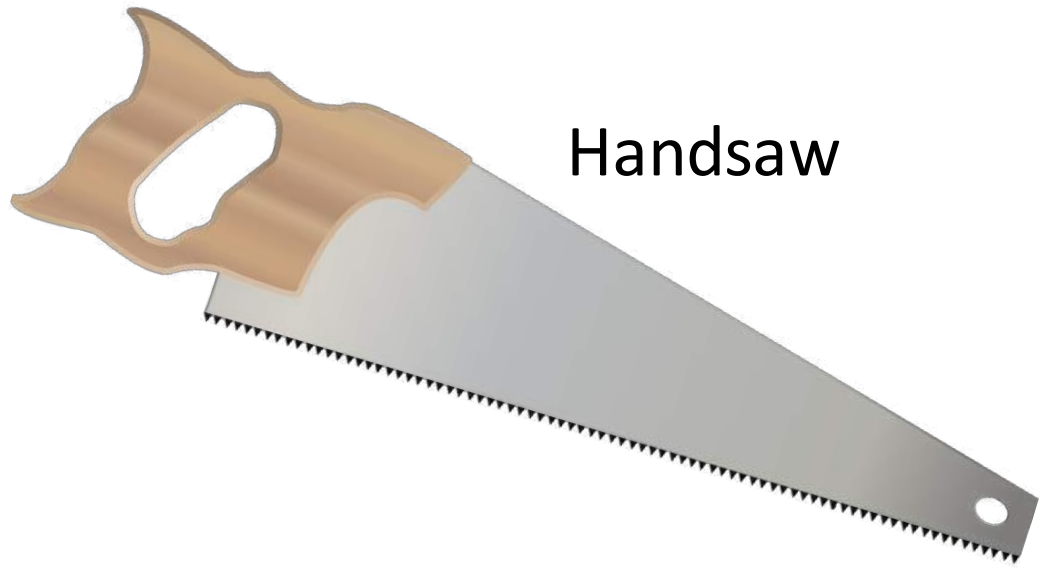


Make your own

DA VINCI BRIDGE MODEL





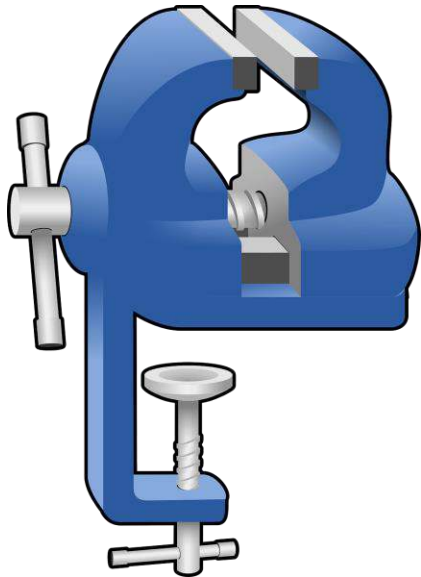
Handsaw



Hand
Files
(Round &
V files)



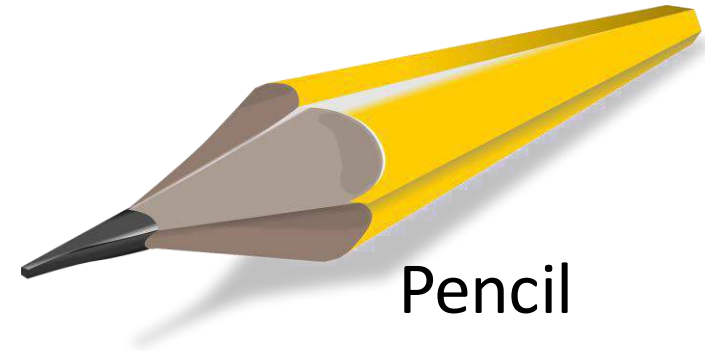
Equipment



Bench vice / clamp



Tape Measure



Pencil

Wooden Dowels



10 pieces of
12mm x ?length

5 pieces of
9mm x ?length

Thickness – 12mm & 9mm

Lengths available

1200mm & 2400mm

A x 10



B x 5



Maths

10 pieces of 12mm x ? length

*Full Dowel Length -
2400mm*

$$2400 / 10 = 240\text{mm}$$

$$2400 / 12 = 200\text{mm}$$

10 pieces of 12mm x 200mm length
(1 bridge set with 2 left over)

Maths

5 pieces of 9mm x ? length

Full Dowel Length -
2400mm

$$2400 / 5 = 480\text{mm}$$

$$2400 / 10 = 240\text{mm}$$

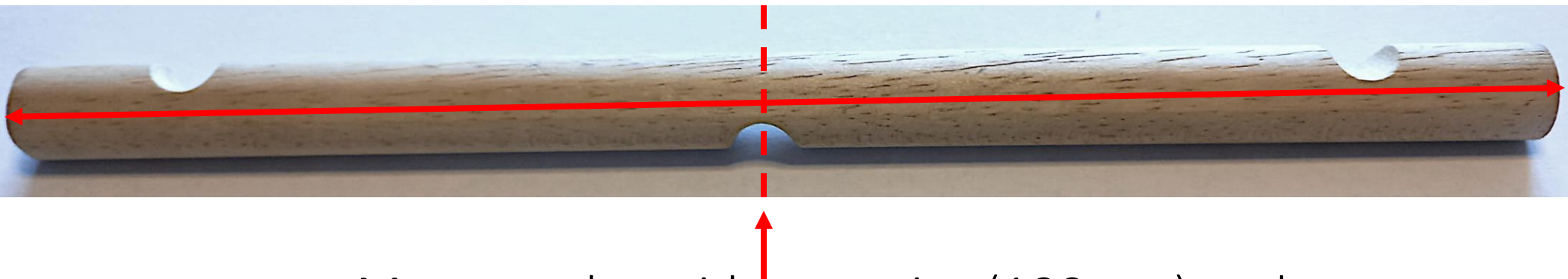
5 pieces of 9mm x 240mm length
(2 bridge sets)

Measure and cut all 15 lengths

All ten 12mm dowels need to be filed

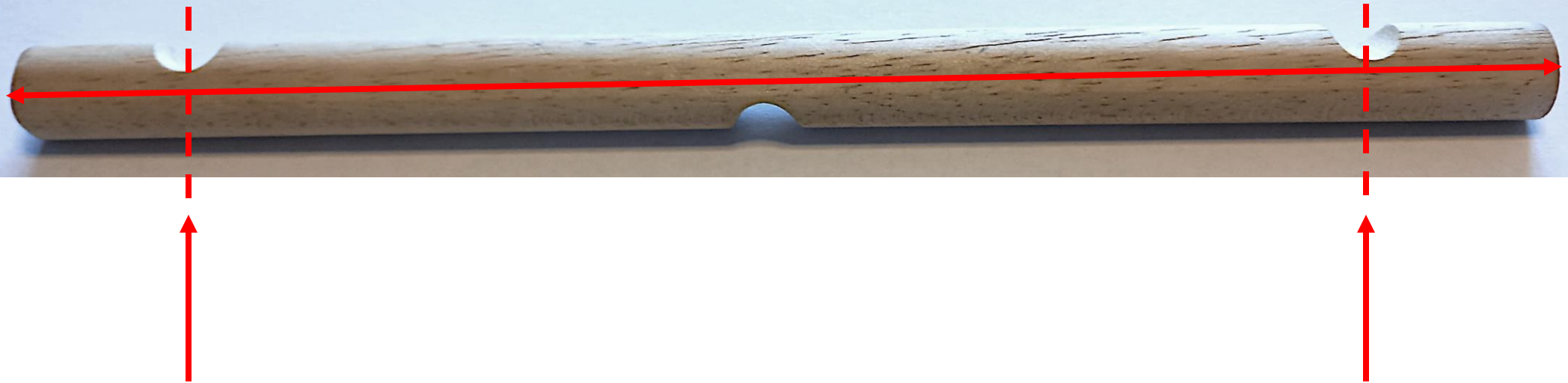
All five 9mm dowels do not need to be filed

12mm dowels are 200mm long



Measure the mid way point (100mm) and
mark it with a pencil line on one side.

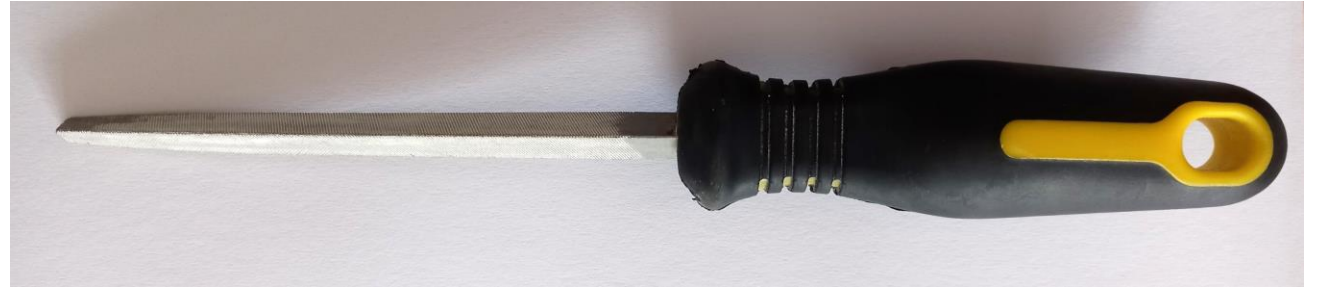
12mm dowels are 200mm long



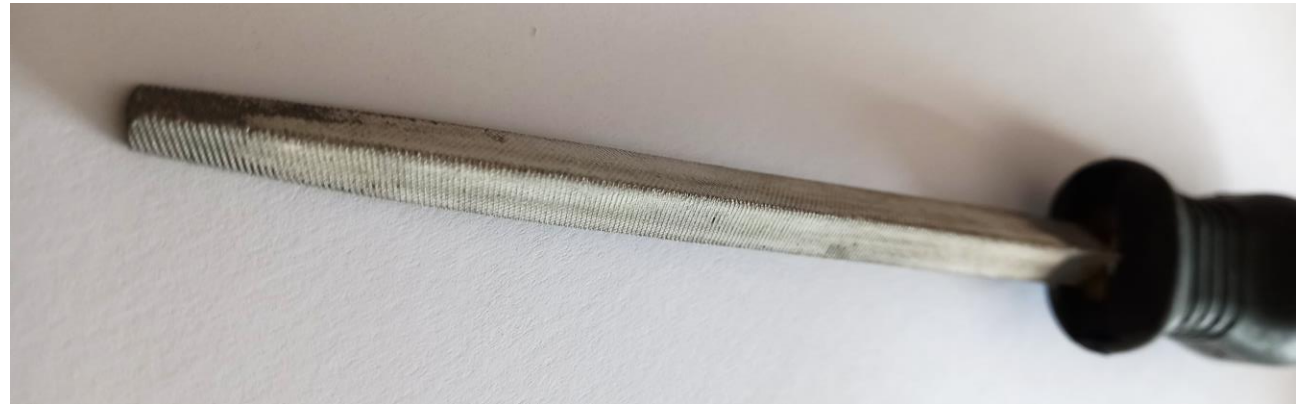
Measure in 25-30mm from each end on the opposite side
Keep them both aligned and at 180° from the centre mark



Round file



V file



Filing

- Secure the dowel into the clamp
- Begin the filing with the V File on the pencil line
- When the groove is deeper swap to the round file
- Use the 9mm dowel as a guide to tell you how deep to file. The 9mm dowel needs to sit comfortably in the groove.



