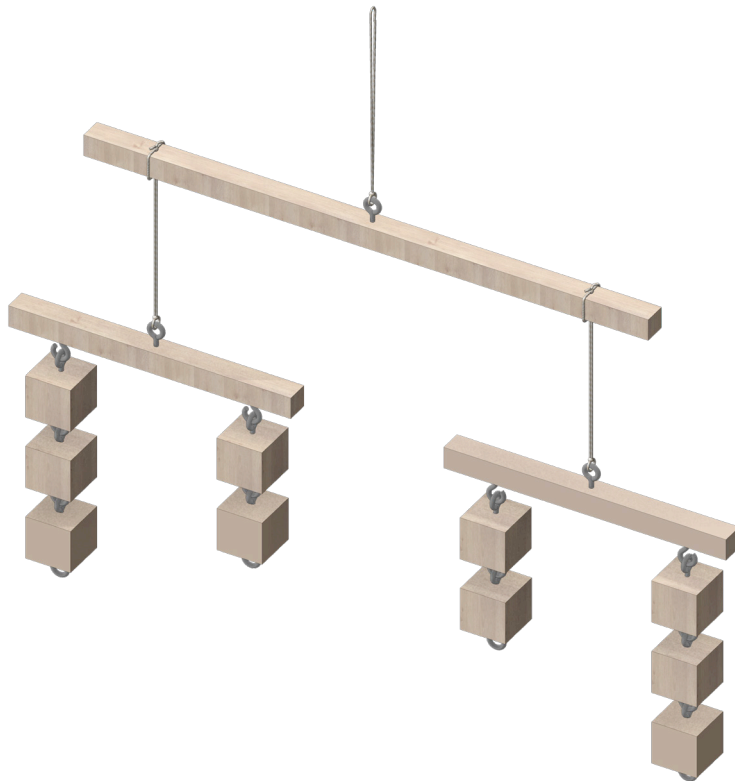


126.674

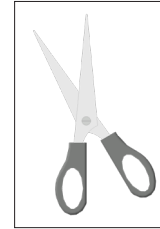
# Tinker set beam balance



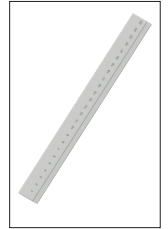
## Tools required:



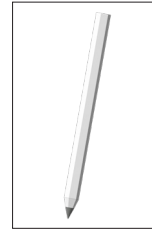
Flat nose pliers



Scissors



Ruler



Pencil



Pricker

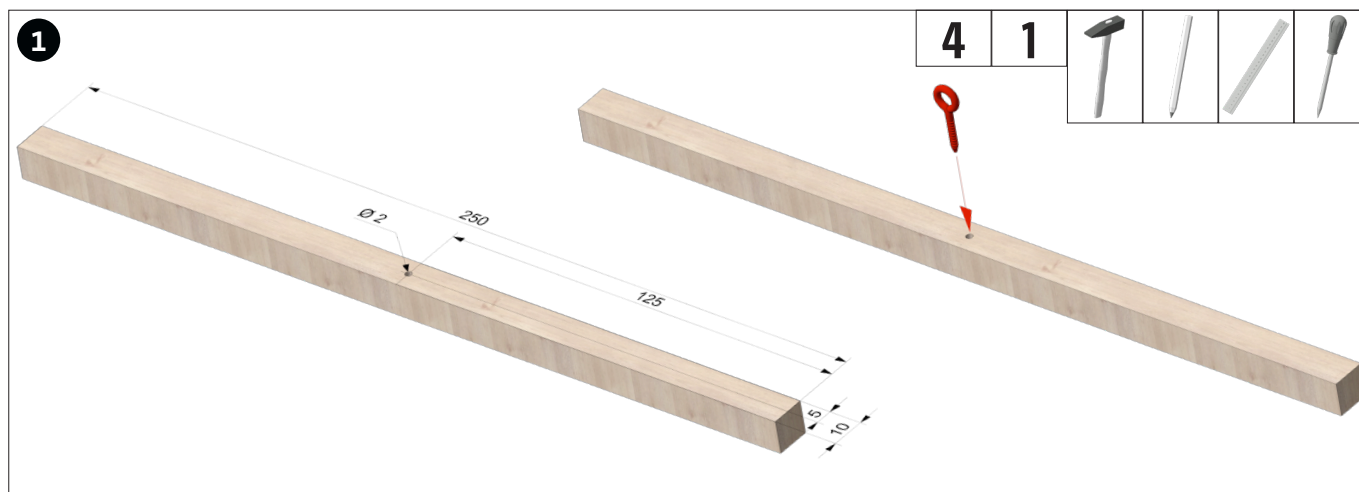


Hammer

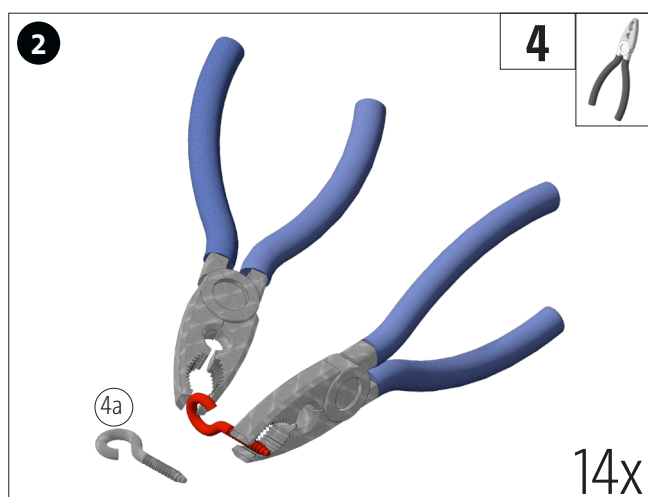
## NOTE:

Once completed, the OPITEC work kits are not articles with the character of toys of a generally commercially available type, but teaching and learning aids to support educational work. This kit may only be built and operated by children and young people under the guidance and supervision of a competent adult. Not suitable for children under 36 months. Choking hazard!

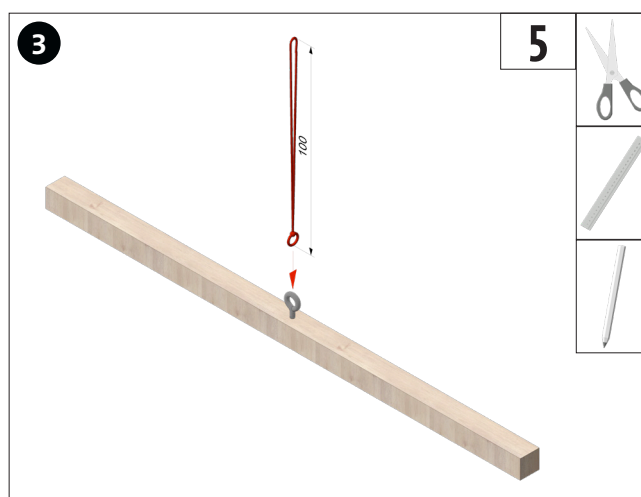
Parts list	Quantity	Dimensions (mm)	Designation	Part no.
Wooden moulding	1	250x10x10	long bar	1
Wooden moulding	2	125x10x10	Short bars	2
Wooden cube	10	20x20x20	Weights	3
Ring bolts	30	12	Fastening / connection	4
Beaded cord	1	1000	Suspension	5



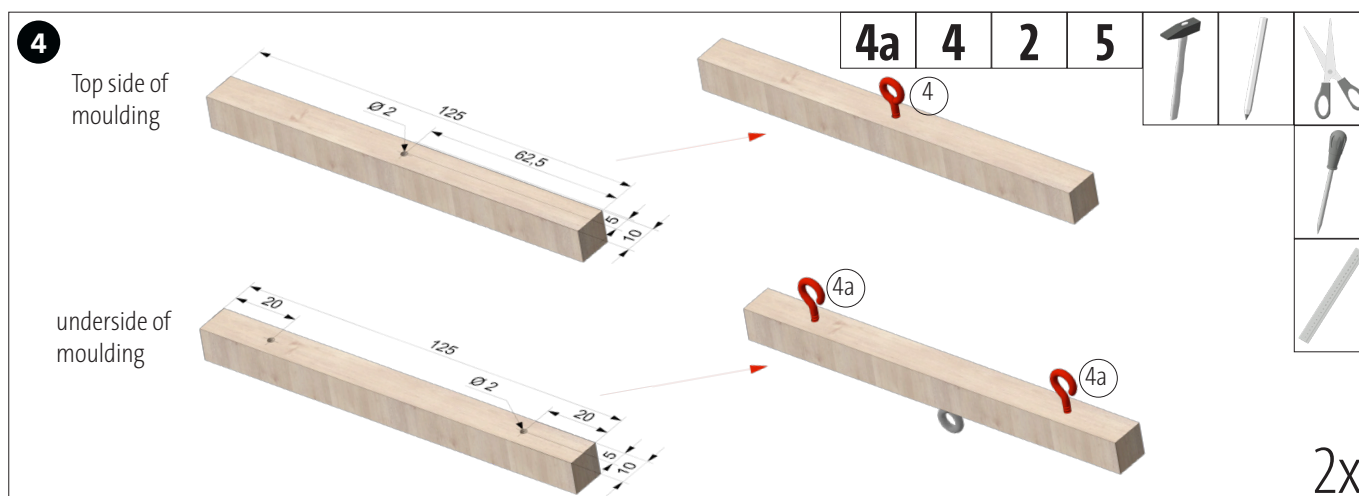
Mark the centre point on the wooden strip (1) according to the dimensions as shown. Make a hole with the centre punch and hammer and then screw in an eyebolt (4).



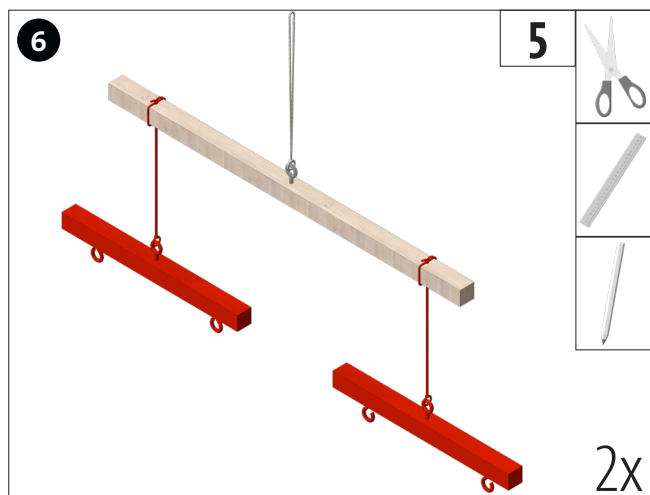
Bend open 14 of the eyebolts (4) as shown using 2 needle-nose pliers to create an opening of approx. 2.5-3 mm.



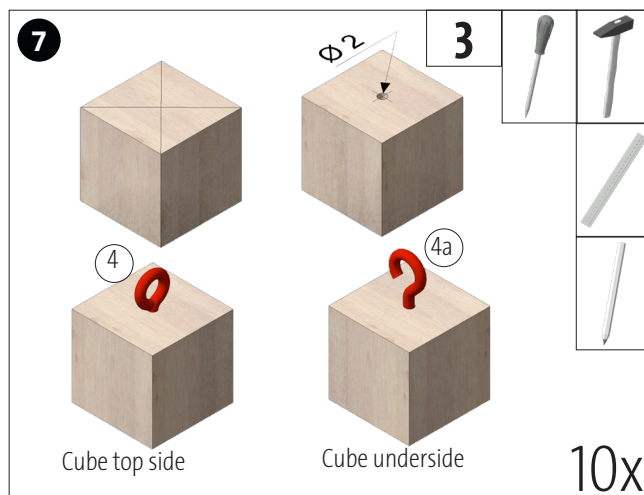
Von der Kordel (5) ein ca. 200mm langes Stück abschneiden und wie abgebildet an der Ringschraube (4) befestigen.



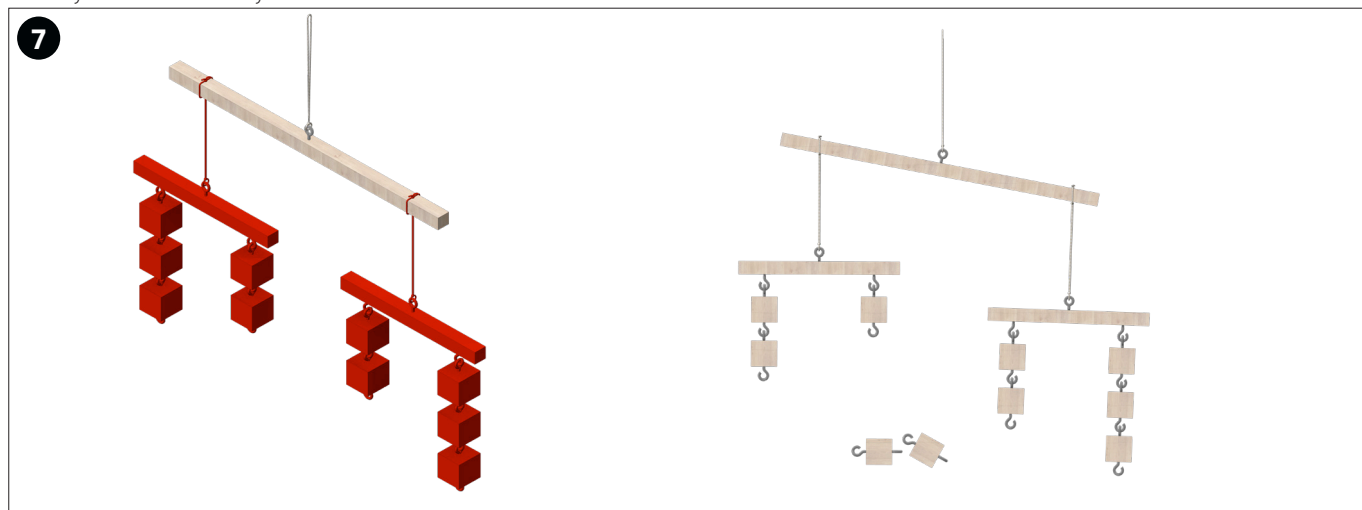
Take the two short mouldings (2). Mark the centre point on the top according to the dimensions. Use the centre punch and hammer to punch a hole and screw in an eyebolt (4). Mark 2 further points on the underside of the moulding according to the dimensions, pre-punch holes and screw in two bent eyebolts (4a).



Cut off two approx. 200 mm long pieces of the cord (5). Knot one end of the cord to each of the eyebolts (4) of the mouldings (2). Then attach a loop to the other end so that the attached mouldings can be attached to moulding (1) so that they can be moved flexibly.



Mark the centre point on the top and bottom of each wooden cube (3) and make a hole with the pricker. Note: Make the holes in the same direction as the cube otherwise it will break. Then screw in the eyebolts (4) and (4a) as shown.



The finished cubes are attached to the bars as weights as shown in order to find out the behaviour of the beam balance. further information and worksheets 'Lever arm & balance' at [www.opitec.com](http://www.opitec.com) - Lehrkraftspezial 4. Ausgabe