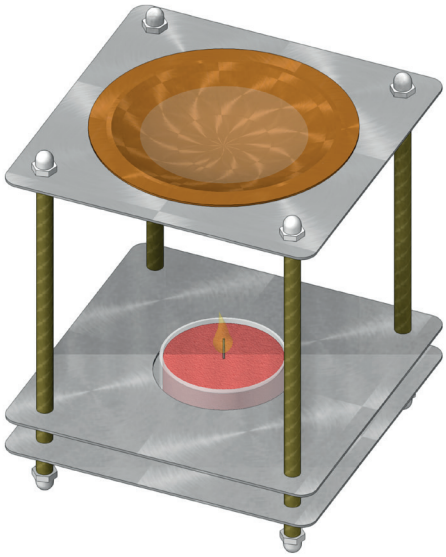
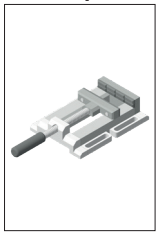
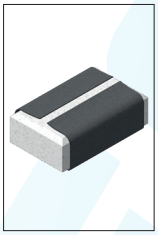
114.480

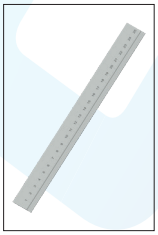
Metal - Oil Burner

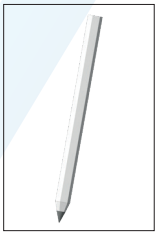


Tools Required:

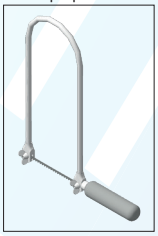

Vice

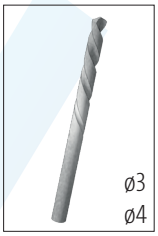

Sandpaper


Ruler

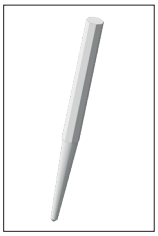

Pencil


Hacksaw


Jig saw

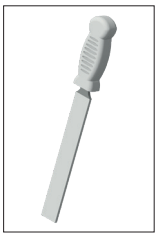


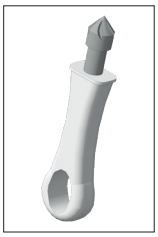
Drill

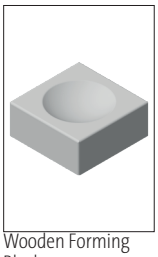

Punch


Embossing Hammer


Spanner


File


Countersink

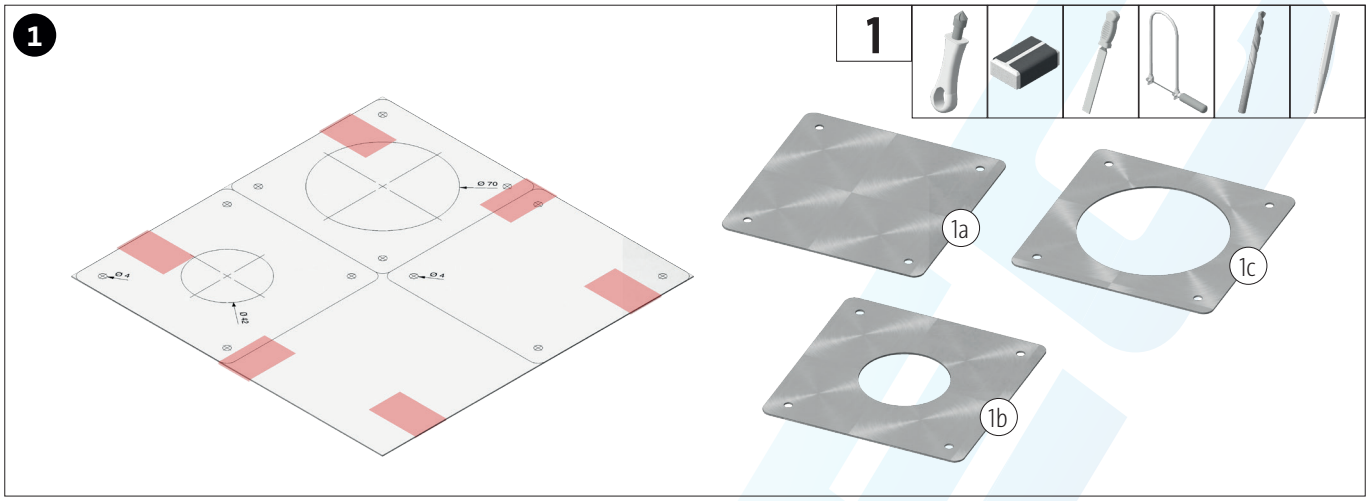

Wooden Forming Block

NOTE:

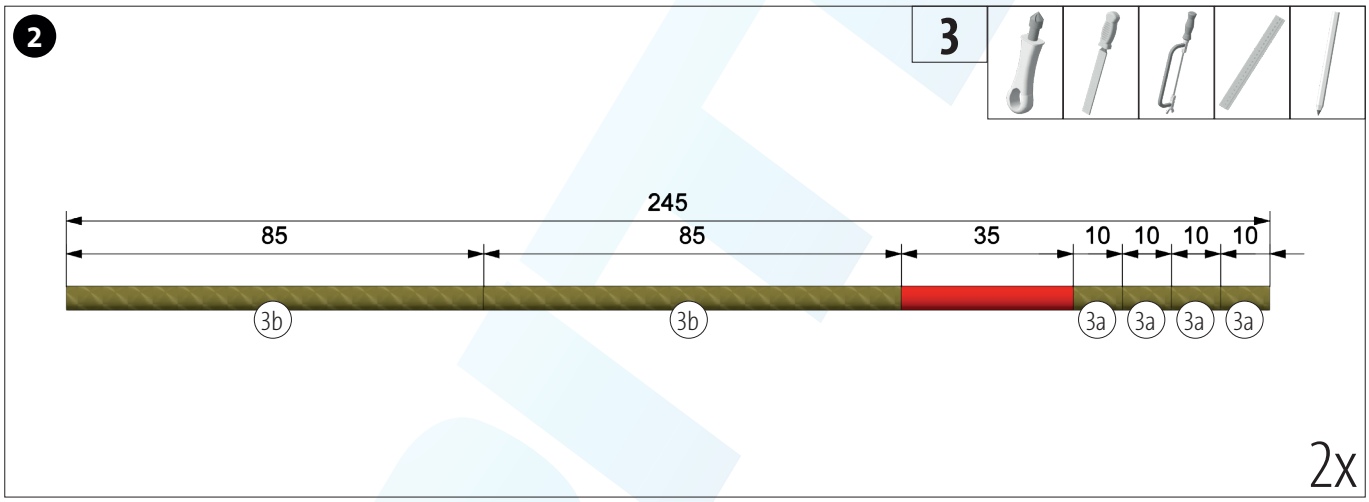
The OPITEC range of projects is not intended as play toys for young children.They are teaching aids for young people learning the skills of Craft, Design and Technology.These projects should only be undertaken and tested with the guidance of a fully qualified adult. The finished projects are not suitable to give to children under 3 years old. Some parts can be swallowed. Danger of suffocation! Not suitable for children under 36 months. Choking hazard!

Part List	Quantity	Dimensions (mm)	Description	Part no.
Aluminium Plate	1	200x200x0.8	Levels	1
Copper Discs	1	ø80	Bowl	2
Brass tube	2	ø5x245	Spacers	3
Threaded rod	4	ø4x150	Threaded rod	4
Capnut	8	M4	Fastening	5

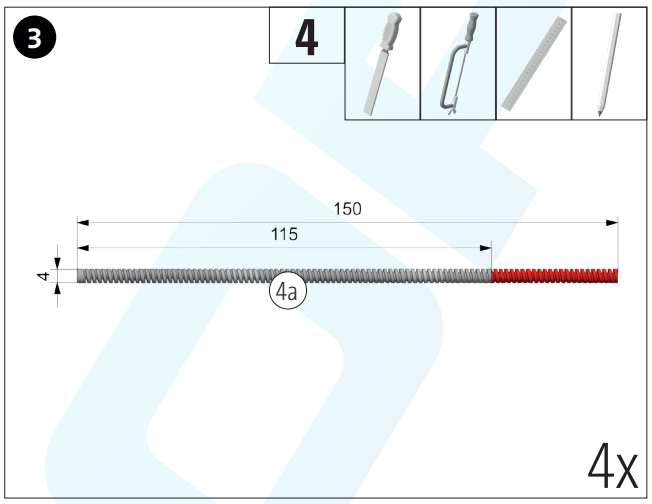
OPITEC



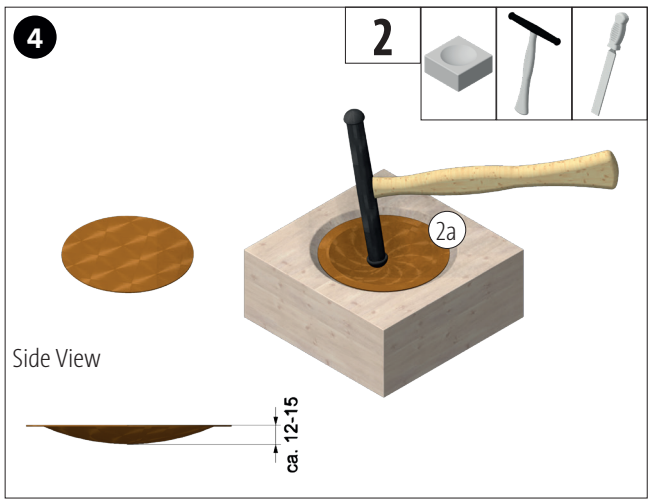
Transfer the template (A) to the aluminium sheet (1) and mark the centres with a centre punch. Drill through all ø 4 mm holes with a metal drill and deburr them with the countersink. Saw out the two ø70 and ø42 openings with a fretsaw with a metal saw blade. To do this, drill a ø 3 mm hole at the edge of the opening and guide the saw blade through the 3 mm hole. Then saw out the base plate, intermediate base and shell holder. Round the corners evenly. Cleanly deburr all edges and saw cuts.



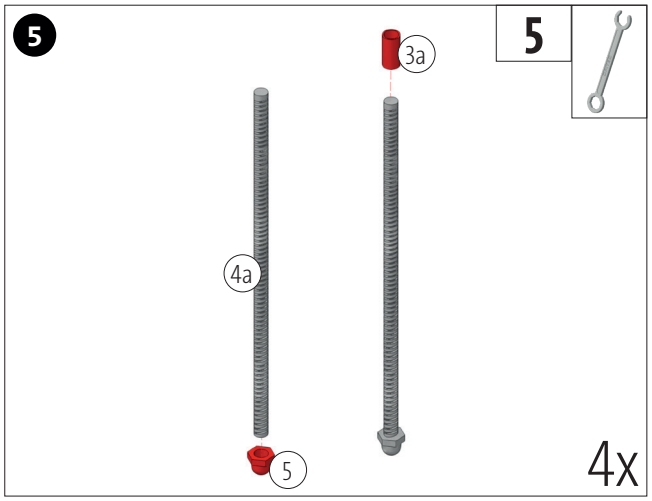
Cut the brass tubes (3) to length with the hacksaw according to the dimensions. Cleanly deburr the inside and outside of the pipe blanks using a countersink and file.
NOTE: The blanks must always be the same length!



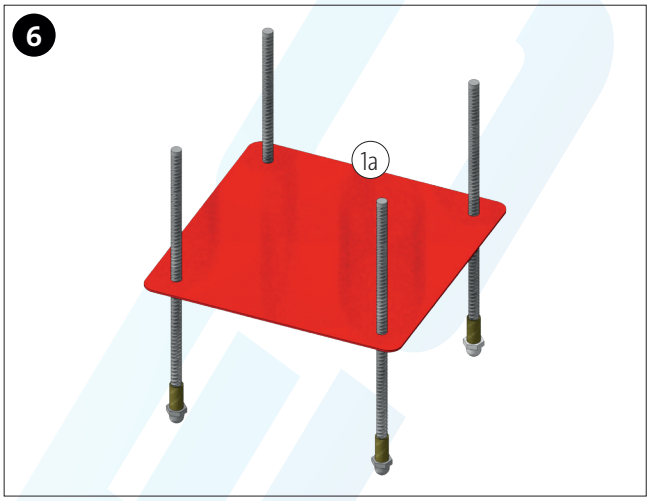
Shorten the threaded rods (4) to 115 mm using the metal hacksaw. Deburr saw edges.



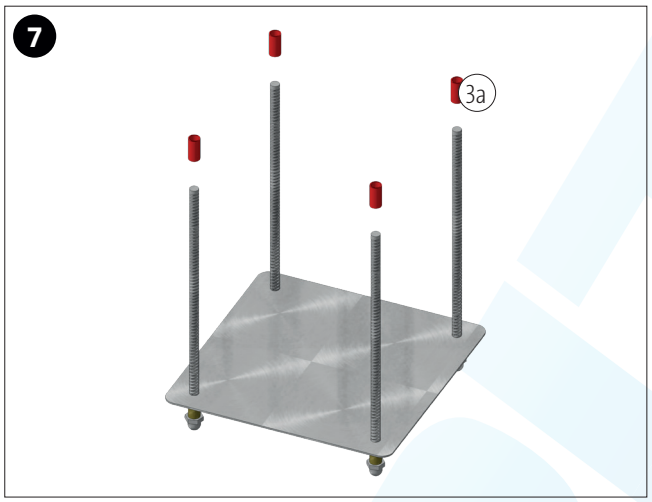
Cleanly deburr the ø80 copper disc (2) with a workshop file. Use the driving block and the driving hammer to drive it into a shell by striking it evenly.
NOTE: Turn the copper sheet during processing!



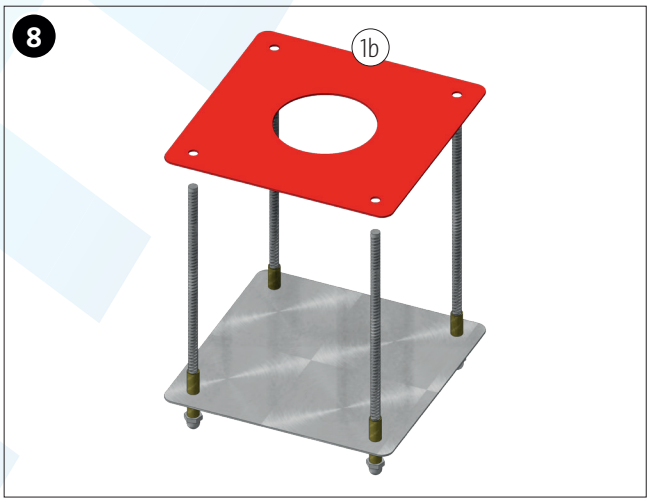
Screw one cap nut (5) onto each of the threaded rods (4a). Then attach one piece of brass pipe (3a) to each.



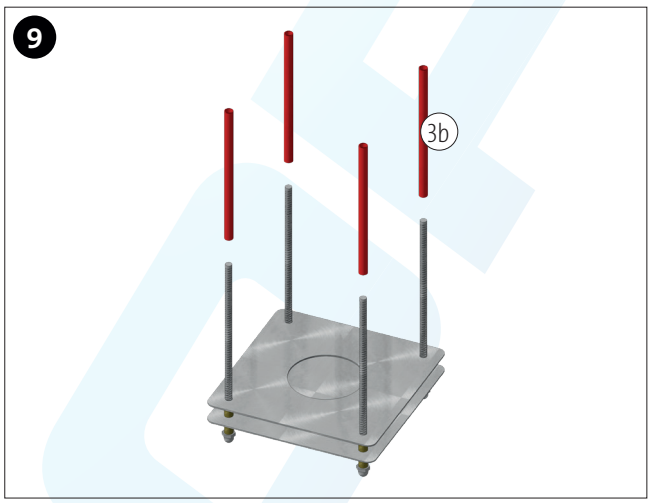
Attach the base plate (1a) to the threaded rods and place on the brass pipe sections.



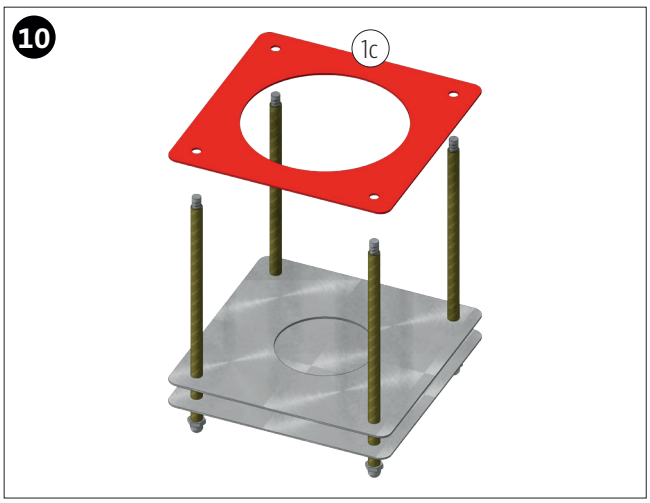
Fit the brass pipe sections (3b) onto the threaded rods.



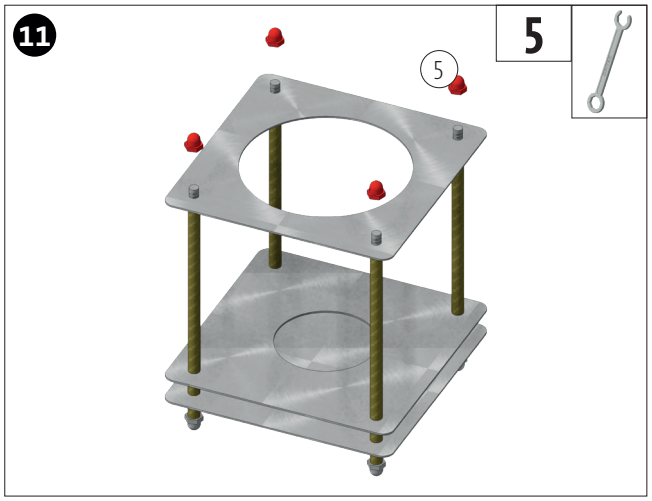
Place the intermediate base (1b) on the brass pipe sections.



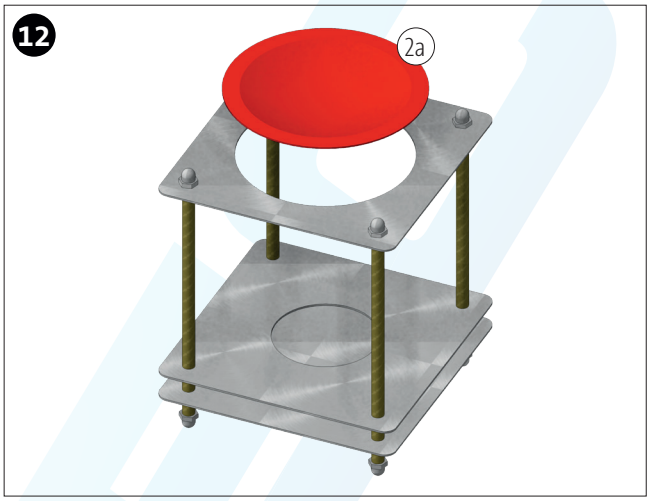
Fit the brass pipe sections (3c) onto the threaded rods.



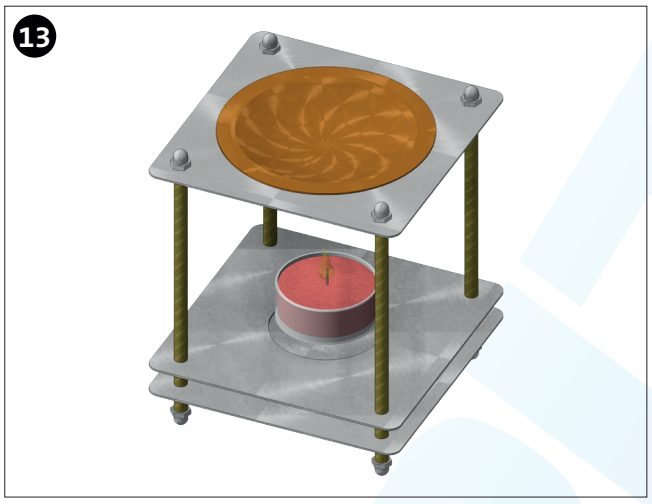
Place the cover (1c) on the brass pipe sections as shown.



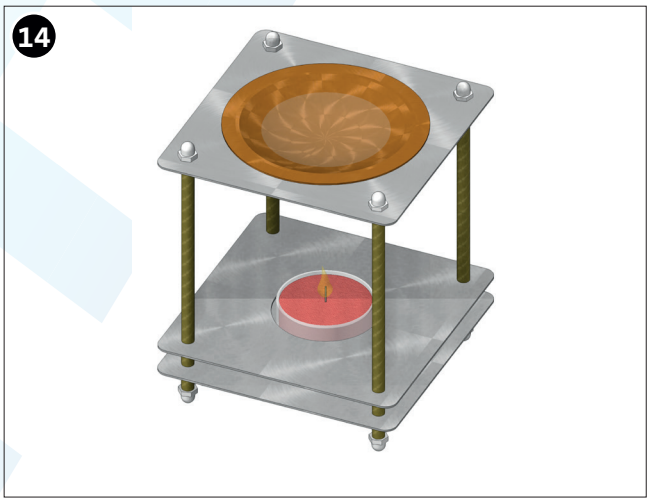
Screw the remaining cap nuts (5) onto the threaded rods and tighten.
NOTE: When tightening, ensure that the pipes and plates are properly aligned.



Insert the copper bowl as shown.



Insert a tea light into the opening of the intermediate shelf. Pour water into the copper bowl and add a few drops of scented oil. The heat of the tea light slowly vaporises the oil and spreads it into the surrounding area.



DONE!

Instructions 114.480
Metal - Oil Burner

Template
SCALE 1:1