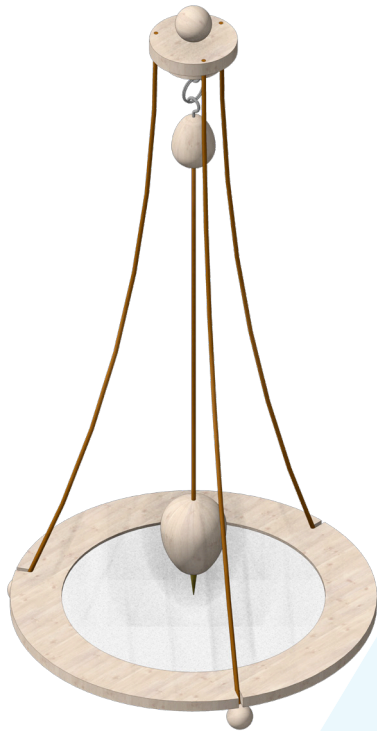
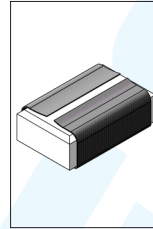


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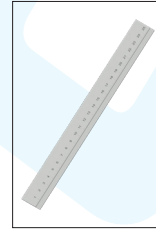
sand pendulum



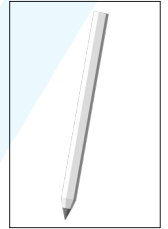
Tools required:



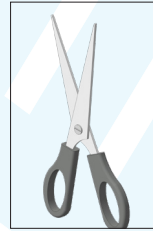
Sand paper



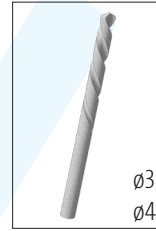
Ruler



Pencil



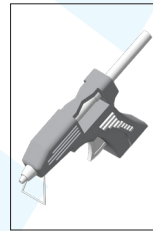
Scissors



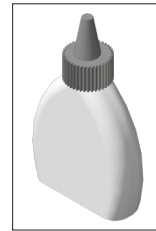
Twist drill



Prickling Awl



Hot glue



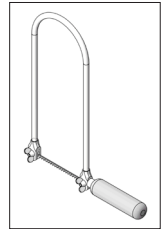
Wood glue



Combination pliers



Coping saw

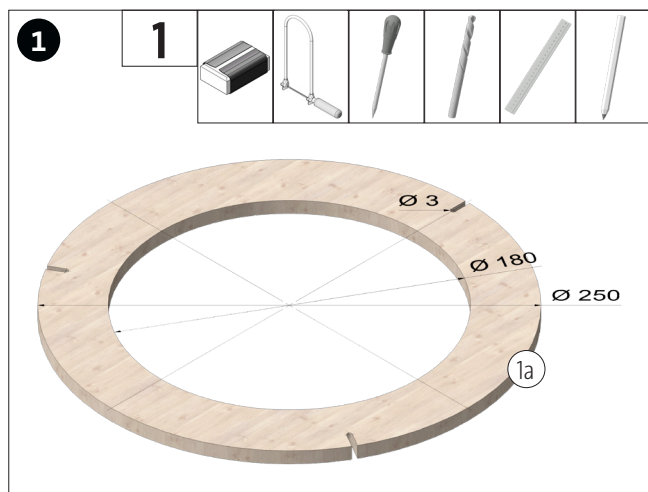


Jigsaw

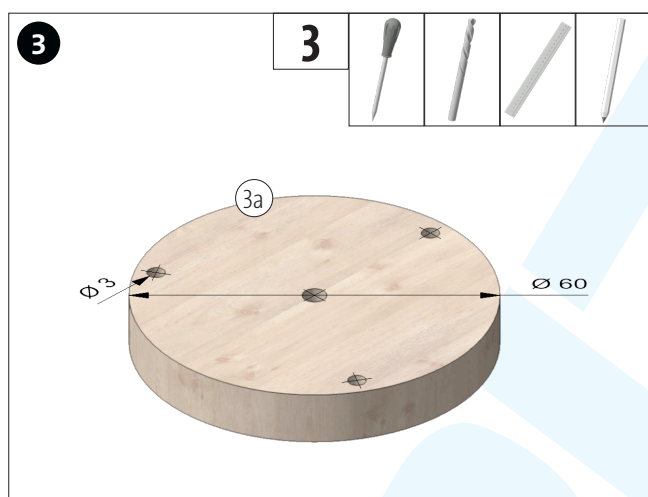
NOTE:

After completion, the OPITEC work kits are not articles with toy character of a generally commercial kind, 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 competent adults. Not suitable for children under 36 months. Danger of suffocation!

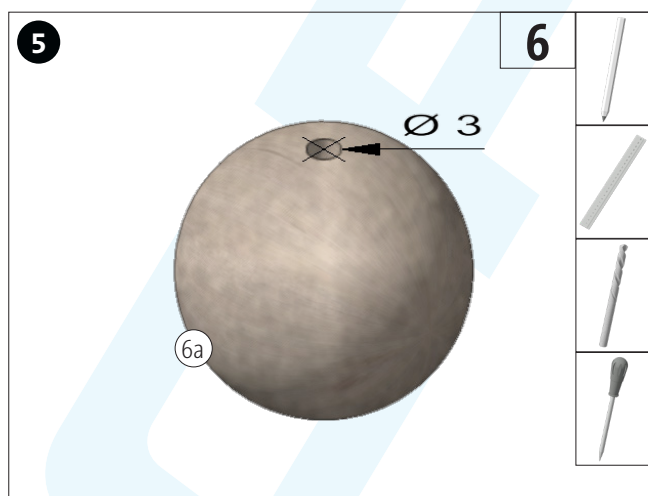
Parts list	Quantity	Dimensions (mm)	Designation	Part no.
Plywood panel	1	400x300x8	Base plate	1
Plywood panel	1	200x200x4	Base plate	2
Wooden wheel	1	ø60x10	stand	3
Wooden wheel	1	ø40x10	stand	4
Wooden Ball	3	ø18	stand	5
Wooden Ball	1	ø30	stand	6
Wooden egg	1	40x30	Pendulum	7
Wooden egg	1	60x40	Pendulum	8
Welding wire	4	ø3x500	base, pendulum	9
Screw Hooks	2		Pendulum	10
Key ring	1	ø25	Pendulum	11
Candle Spike	1		Pendulum	12



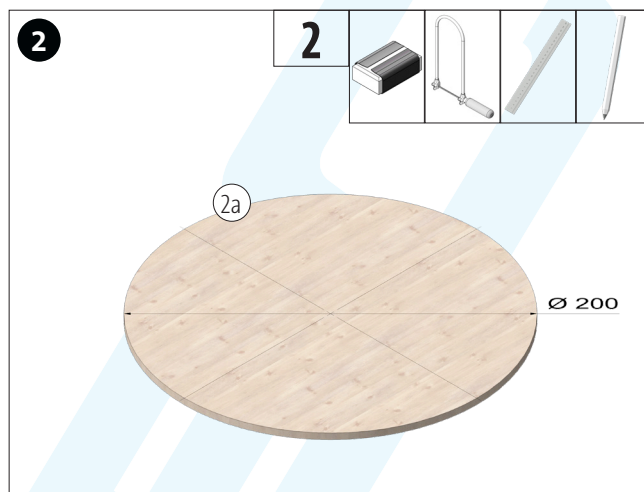
Cut out the template (A), glue it together and transfer it to the plywood panel (1). First pierce and drill the plywood panel, then saw it out. Clean saw cuts.



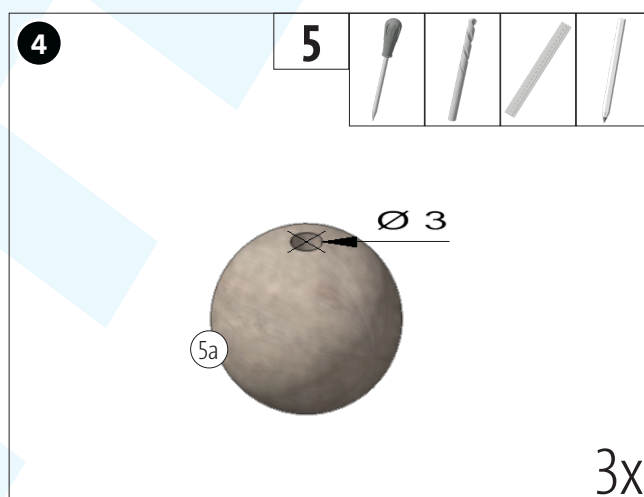
Cut out the template (C) and transfer it to the wooden wheel (3). Prick and drill the wooden wheel at the marked positions.



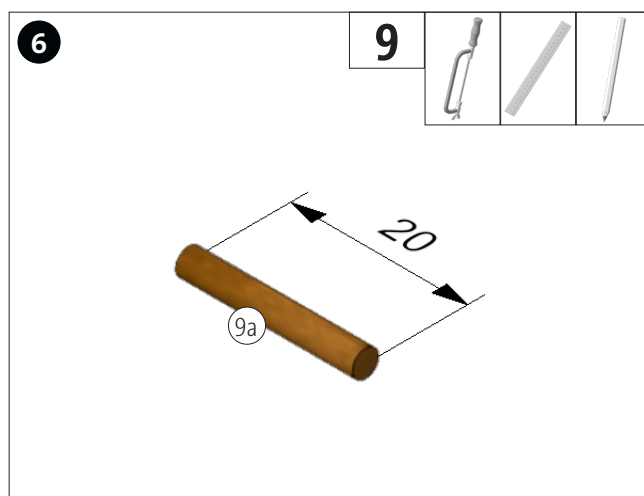
Prick the wooden ball (6) and drill approx. 15 mm deep.



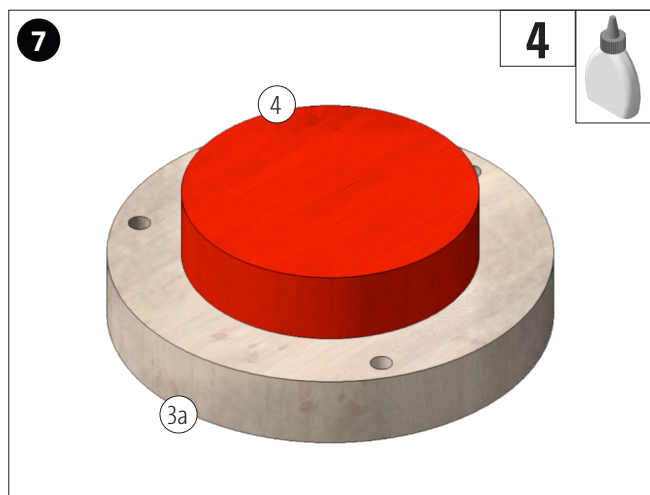
Cut out the template (B), glue it together and transfer it to the plywood panel (2). Saw out the plywood board. Clean saw cuts.



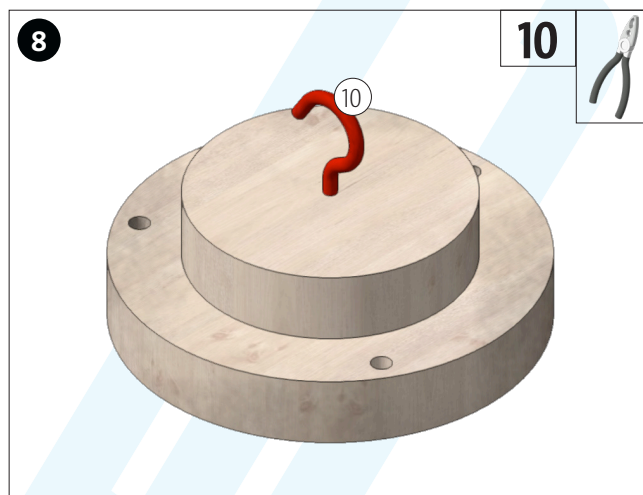
Prick the wooden ball (5) and drill approx. 15 mm deep.



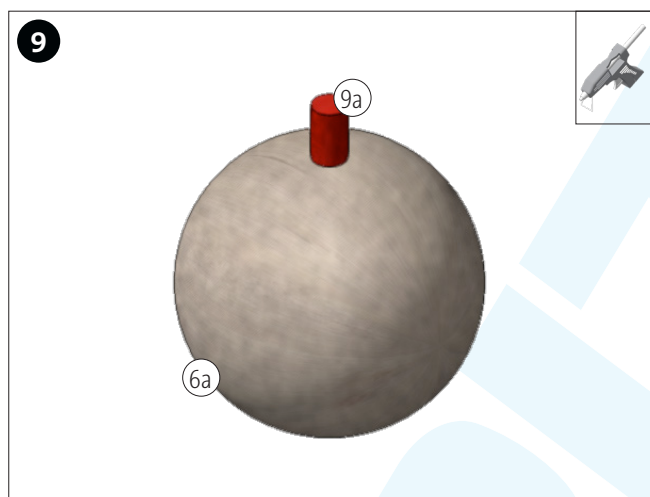
Cut a piece of welding wire (9) approx. 20 mm long and deburr it.



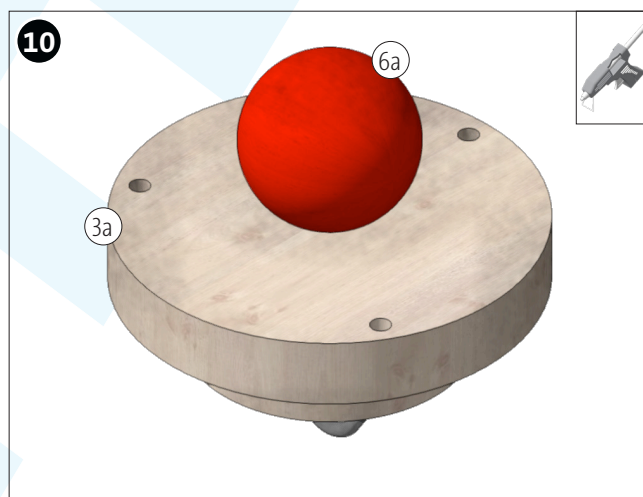
Glue the wooden wheel (4) centered on the wooden wheel (3a).



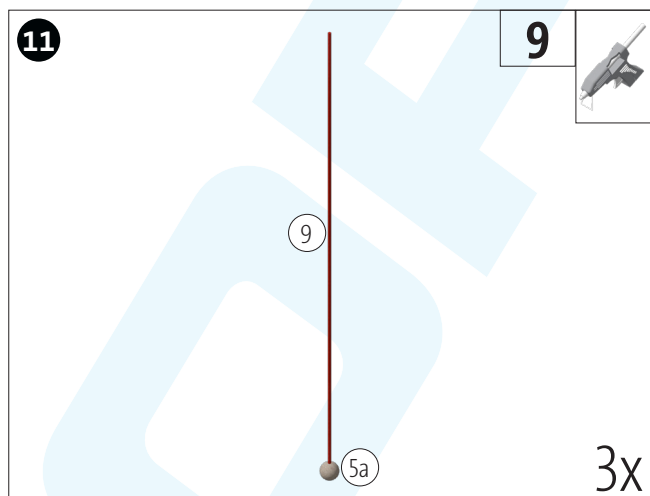
Screw in the screw hook (10) in the middle.



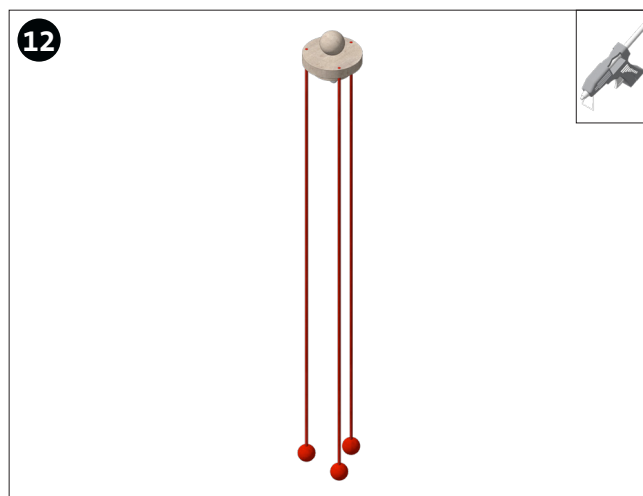
Insert the welding rod (9a) into the wooden ball (6a).
NOTICE: Glue in if necessary!



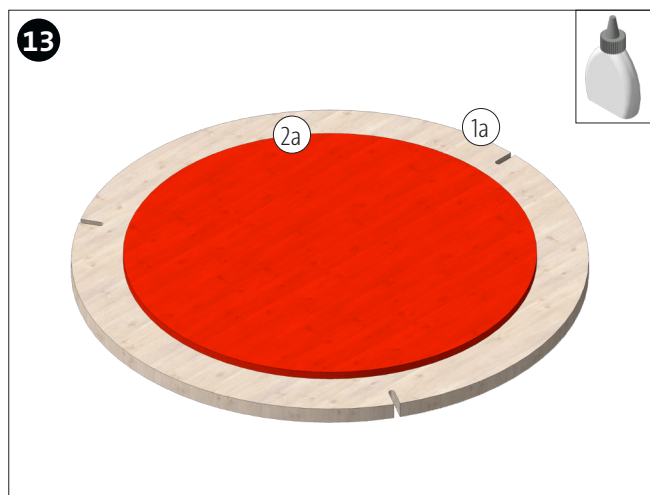
Glue the wooden ball (6a) to the wooden wheel (3a) as shown.



Push the wooden ball (5a) onto the welding wire (9).
NOTICE: Glue in if necessary!



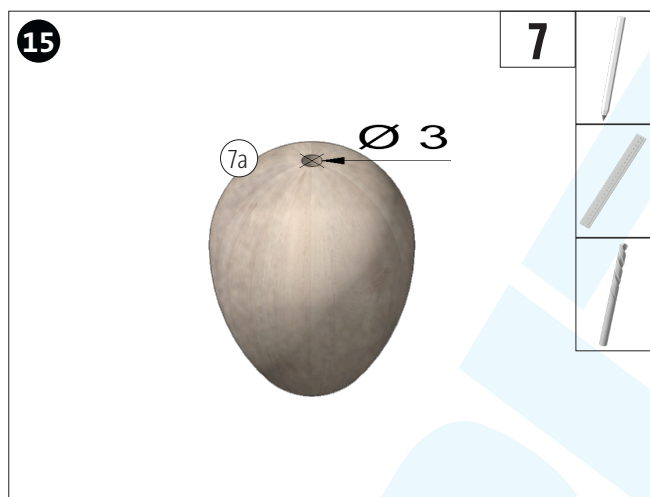
Insert the welding wire into the wooden wheel as shown.
NOTICE: Glue in if necessary!



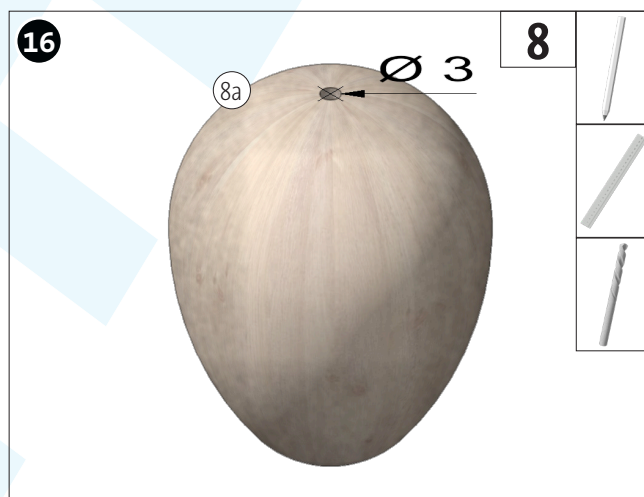
Glue the wooden disc (2a) centered on the wooden disc (1a).



Insert the feet into the recesses as shown.



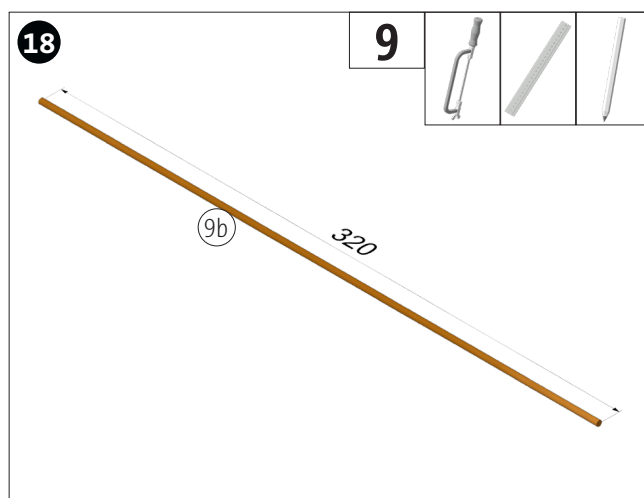
Drill out the wooden egg (7) about 15 mm deep on the wide side.



Drill out the wooden egg (8) approx. 25 mm deep on the wide side.

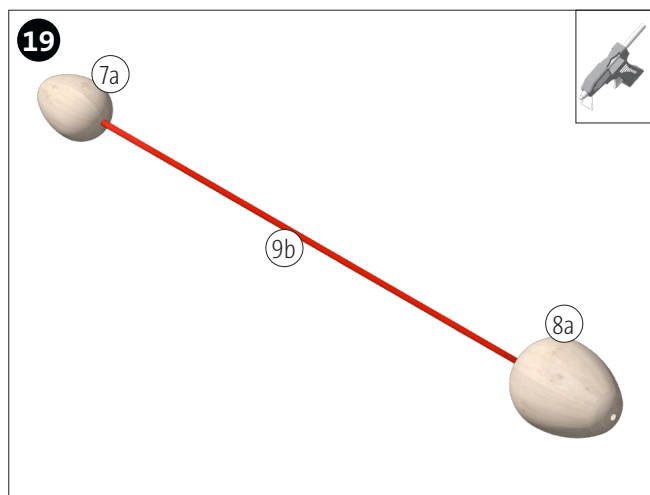


Prick the wooden egg (8a) on the narrow side and drill a hole approx. 20 mm deep.

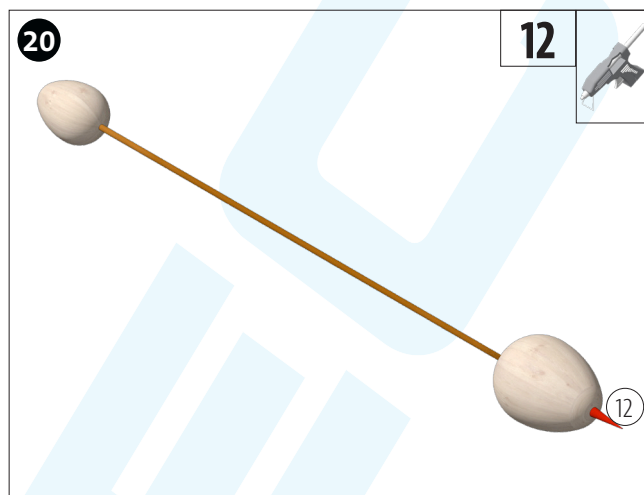


Cut a piece approx. 320 mm long from the welding wire (9) and deburr it.

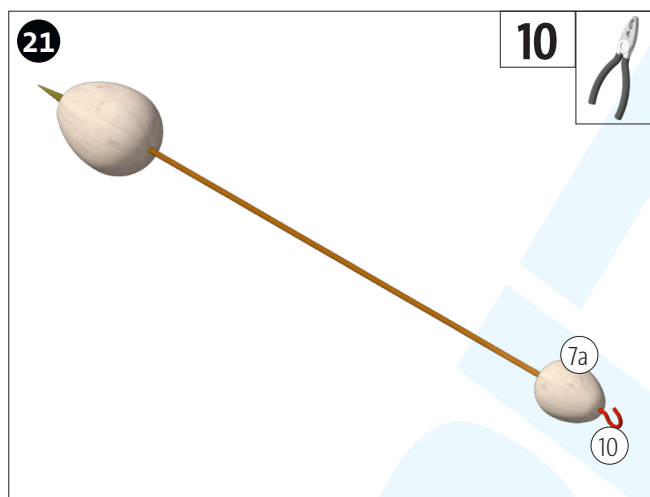
Instructions 124.672
sand pendulum



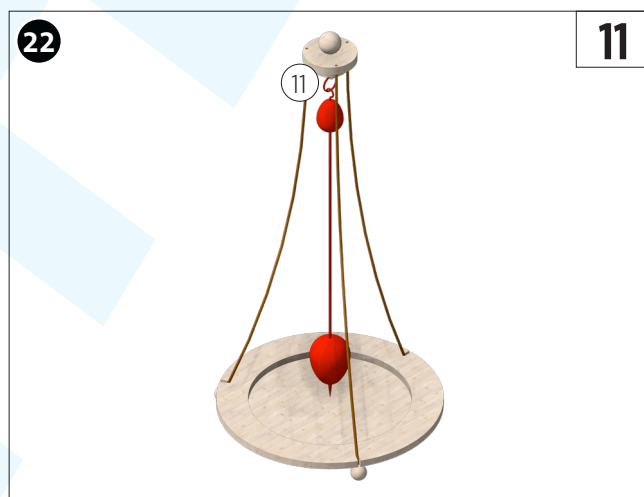
Push the two wooden eggs (7a and 8a) onto the welding wire (9b).
NOTICE: Glue in if necessary!



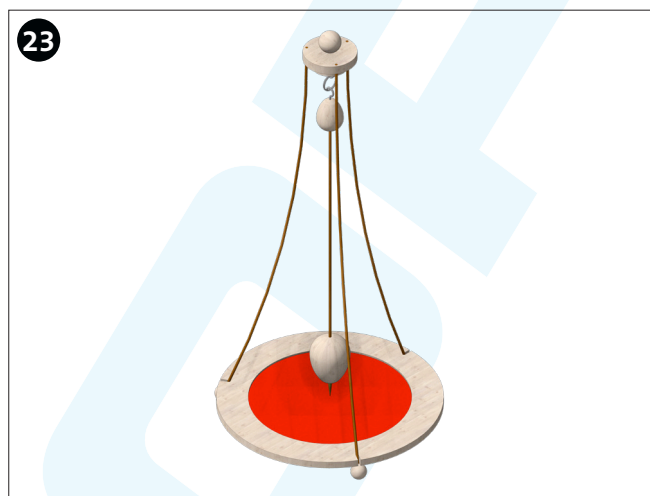
Glue the spark plug mandrel (12) into the hole.



Center the screw hook (10) into the wooden egg (7a).



Hang in the pendulum with the key ring (11) as shown.



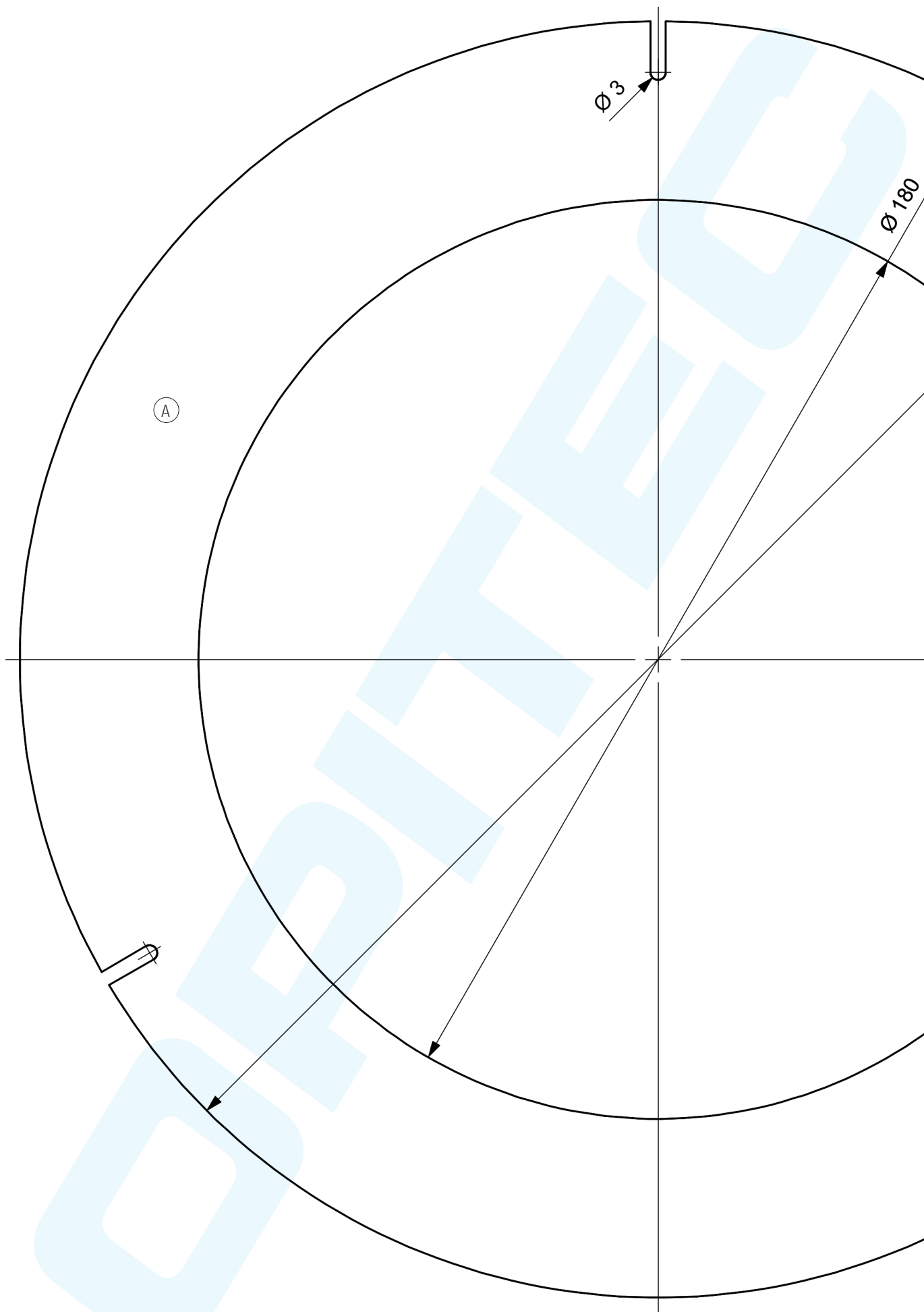
Fill in sand and level.
NOTICE: The depth of the pendulum can be adjusted using the screw hooks.



FINISHED!

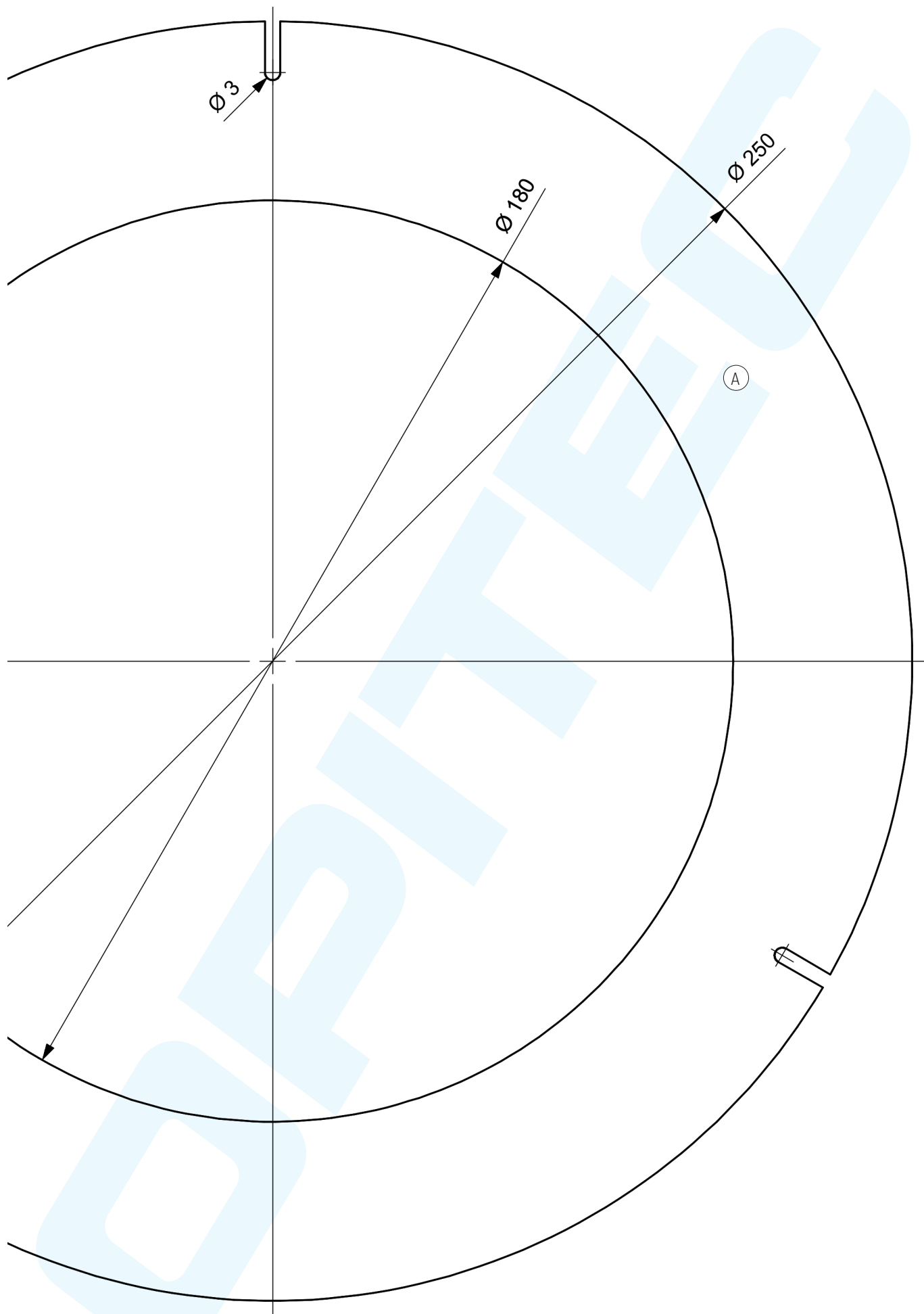
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