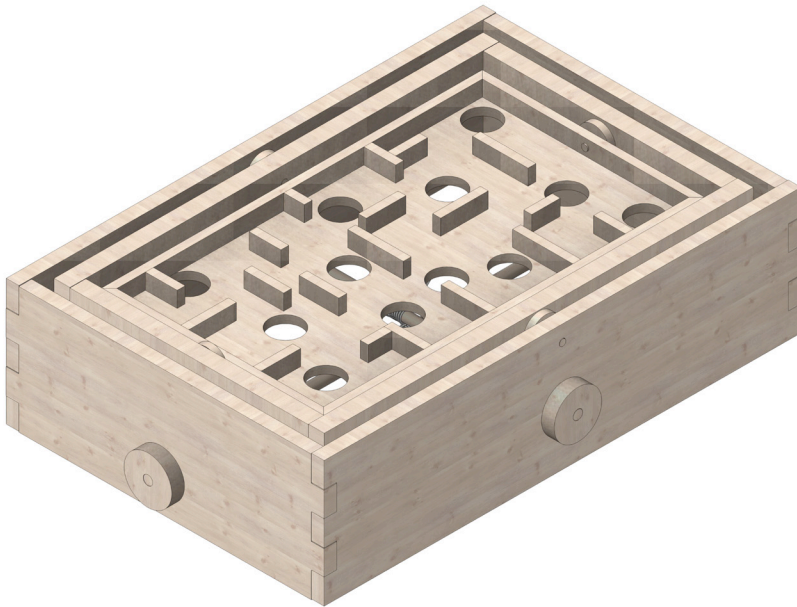
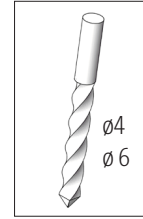


# 104,098

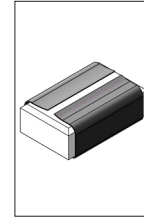
## Labyrinth



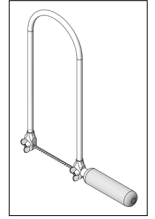
### Tools Required:



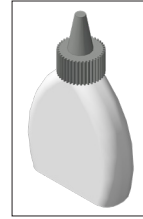
Drill Bit



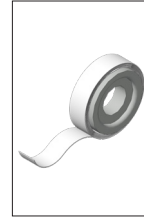
Sandpaper



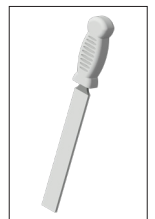
Fretsaw



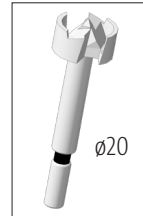
wood glue



Adhesive tape



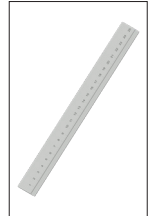
Engineer's file



Forstner drill



Pencil



ruler



Circle



Scissors



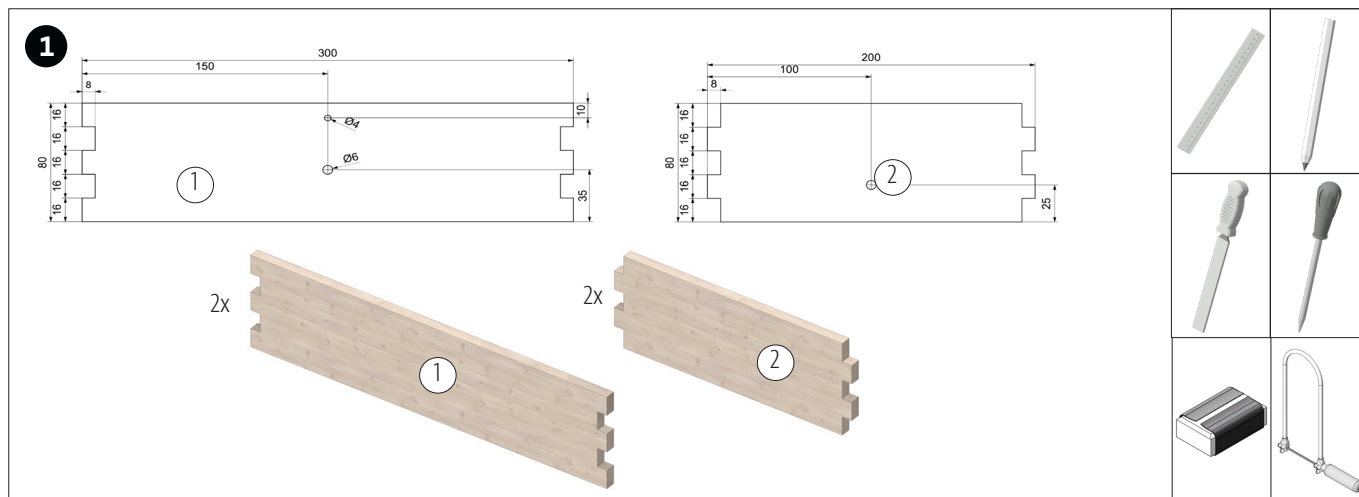
Pricking gouge

### Note

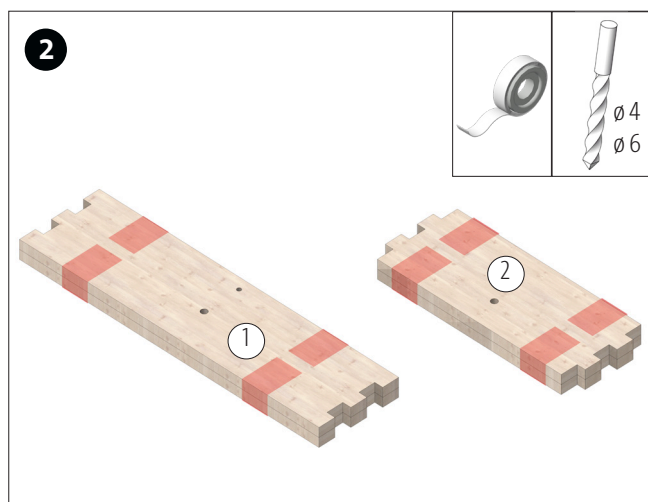
After completion, the OPITEC factory packs are not toys that are generally commercially available, but teaching and learning materials to support educational work. This kit may only be built and operated by children and young people under the guidance and supervision of knowledgeable adults. Not suitable for children under 36 months. Danger of suffocation!

| parts list    | quantity | Dimensions (mm) | Description         | Part No.: |
|---------------|----------|-----------------|---------------------|-----------|
| plywood       | 2        | 300x80x8        | side panel          | 1         |
| Plywood       | 2        | 200x80x8        | side panel          | 2         |
| Plywood       | 1        | 240x140x4/5     | Playing area        | 3         |
| plywood       | 1        | 100x30x4/5      | Small parts         | 4         |
| Wooden Strips | 2        | 300x20x10       | frame strip         | 5         |
| Wooden strip  | 2        | 200x20x10       | Frame strips        | 6         |
| wooden strip  | 6        | 250x10x5        | Frame+playing field | 7         |
| rod           | 1        | ø4x100          | Round Rod           | 8         |
| round rod     | 1        | ø6x350          | round rod           | 9         |
| Round Rod     | 1        | ø6x250          | round bar           | 10        |
| Wooden Wheel  | 4        | ø 30            | Control             | 11        |
| Screws        | 4        | ø2.69x9.5       | Control             | 12        |
| Crystal ball  | 1        | ø15             | Game Ball           | 13        |
| twine         | 1        | 1000            | Control             | 14        |

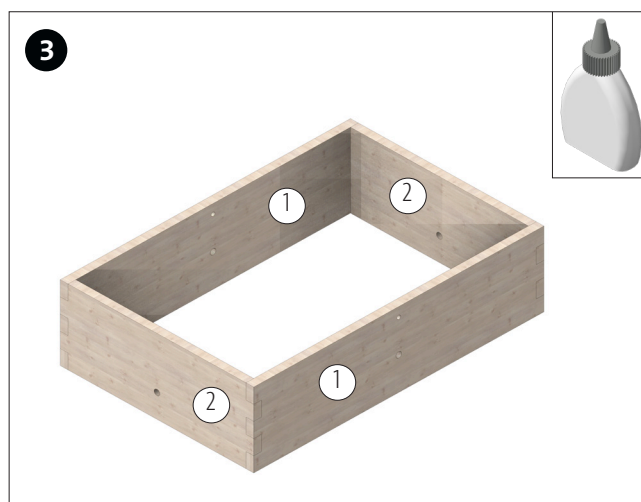
**Building instructions 104098**  
**Labyrinth**



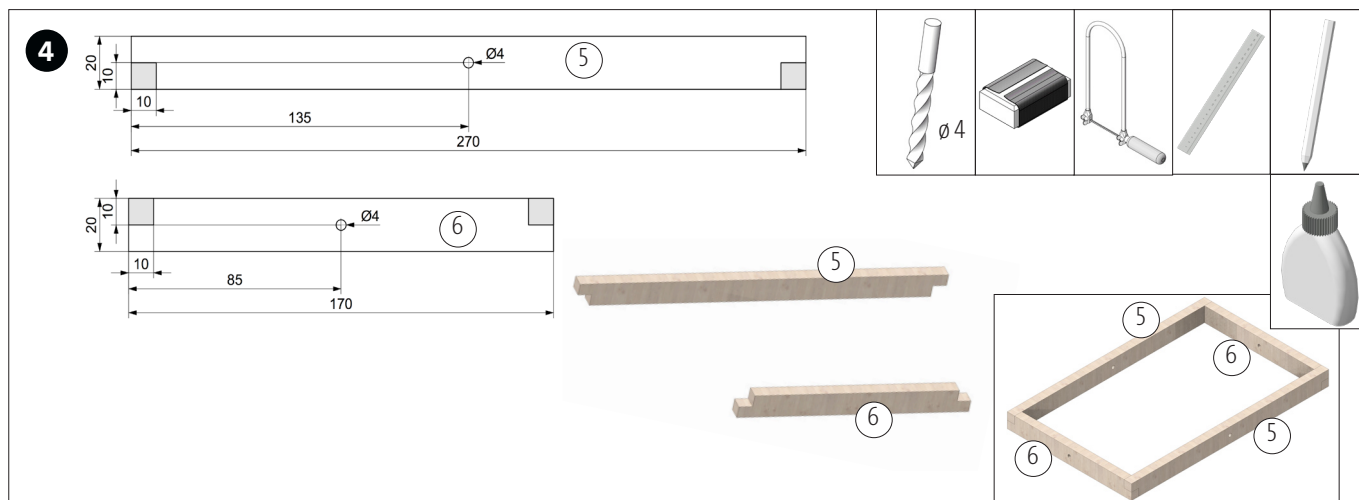
Mark an 8mm wide strip on both ends of the strips (1+2). Divide this strip into 5 parts of 16mm each. Cut out the recesses for the finger joints using a jigsaw. These recesses can also be made with a file. Glue the frame strips (1+2) together as shown. Mark the holes with a hole punch.



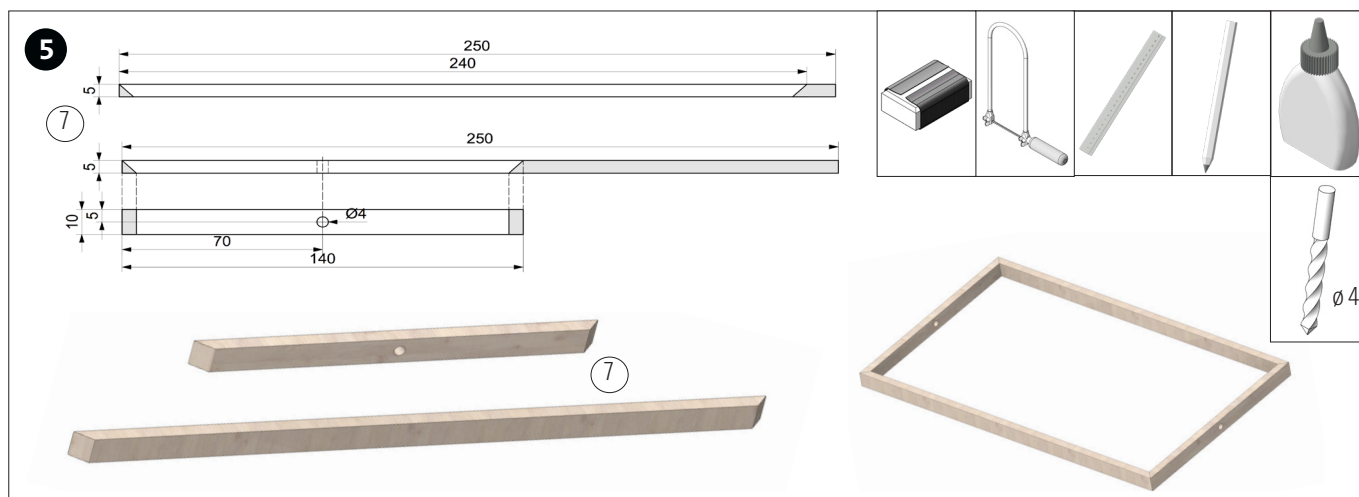
Fix the two strips (1) on top of each other with adhesive tape. Do the same with the two strips (2). Then drill the holes Ø4mm and Ø6mm.



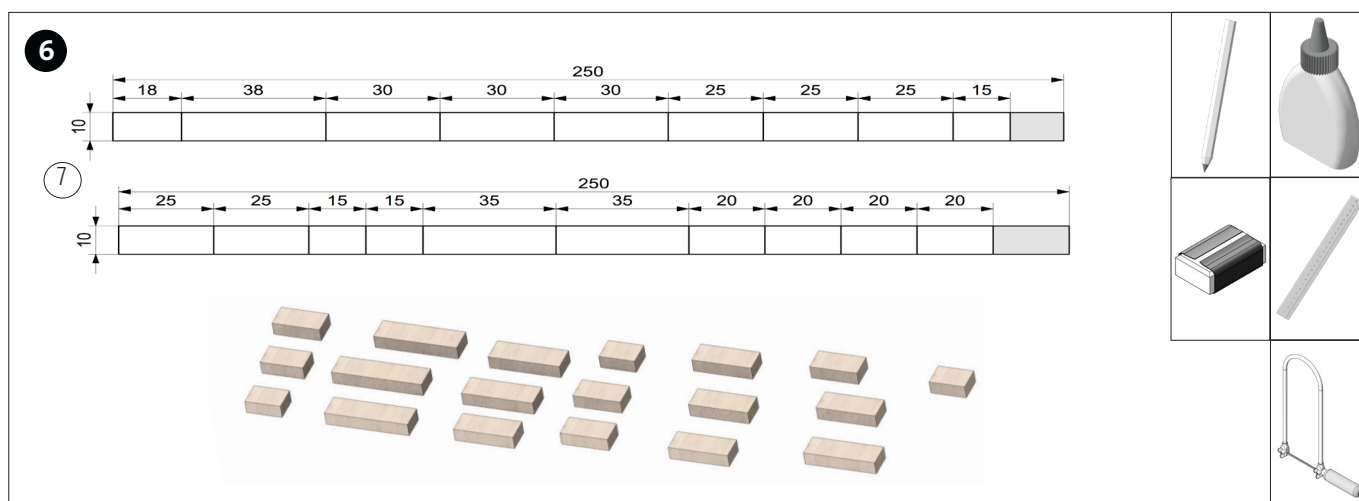
Glue the strips (1+2) together to form a frame as shown.



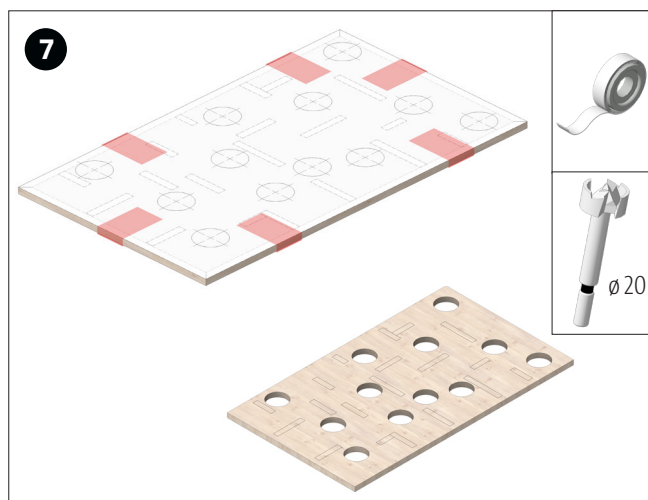
Shorten the strips (5) as shown. Mark the center on each strip and drill a hole with a diameter of 4 mm. Shorten the strips (6) as shown. Mark the center on each strip and drill a hole with a diameter of 4 mm. Saw out the finger joints. Then glue the strips together to form a frame as shown.



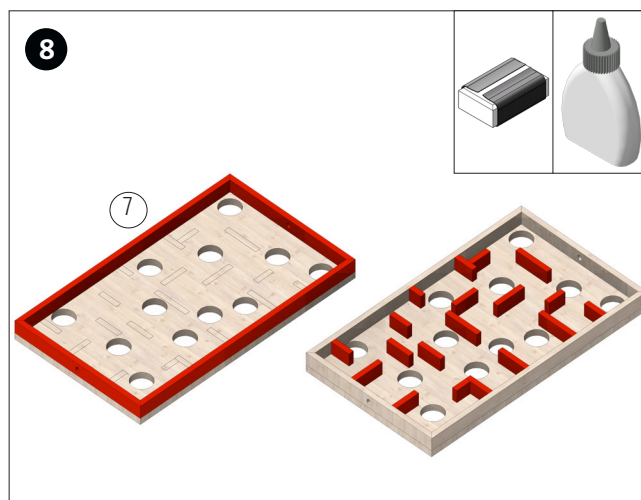
Shorten 2 strips (7) to 240mm. Bevel both ends at 45° with a file. Shorten 2 strips (7) to 140mm and also bevel these ends at 45°. Mark the middle of the two 140mm long strips and drill a hole with a diameter of 4mm through each. Then glue the strips together to form a frame as shown above.



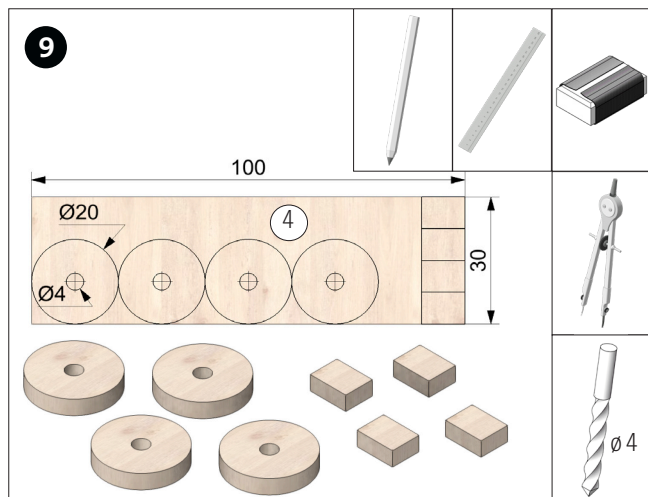
Saw off the wooden pieces for the playing surface from the remaining 2 strips (7) and clean the saw cuts.



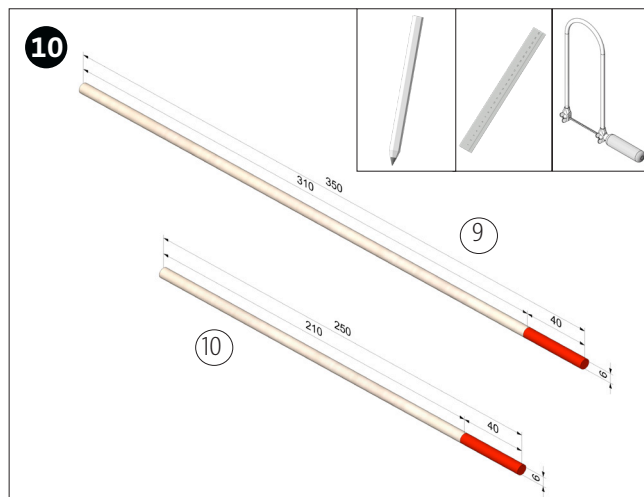
Transfer the playing field to the enclosed plywood board and drill the holes with a  $\varnothing 20$ mm Forstner bit. Mark the positions for the strip pieces.



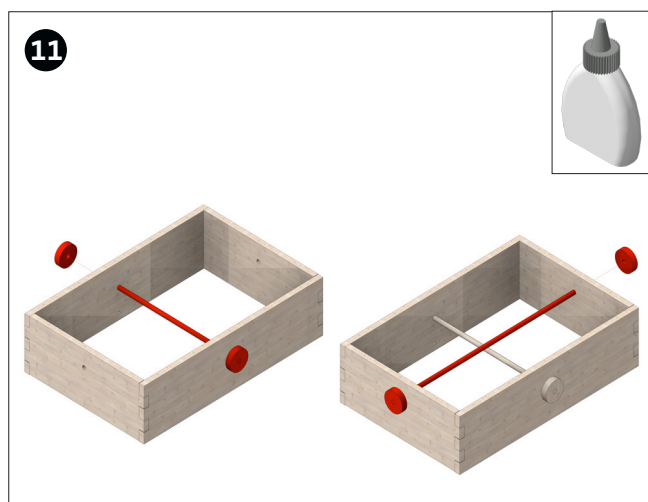
Glue the frame (step 5) onto the playing field as shown. Then glue the strip pieces onto the playing field. Sand the playing field cleanly.



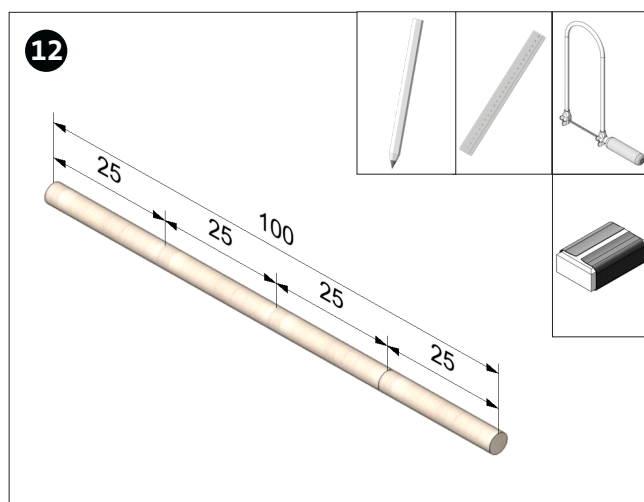
Mark 4 wooden discs Ø20mm and 4 spacers on the plywood (4). Drill a hole Ø4mm in the middle of each wooden disc. Then cut out the wooden discs and the spacers with a jigsaw. Sand the saw cuts cleanly.



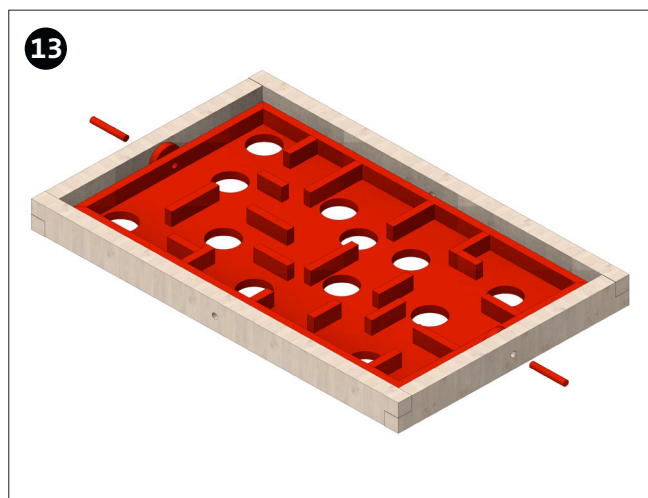
Shorten the round rod (9) to 310mm and the round rod (10) to 210mm.



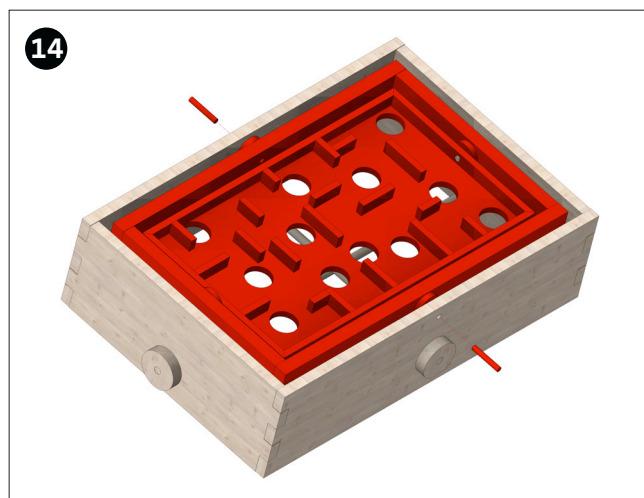
Insert both pieces of round wood crosswise into the Ø6mm holes in the outer frame and glue a drilled wooden wheel (11) onto each end.



Cut the round rod (8) into 4 pieces of 25 mm each as shown.

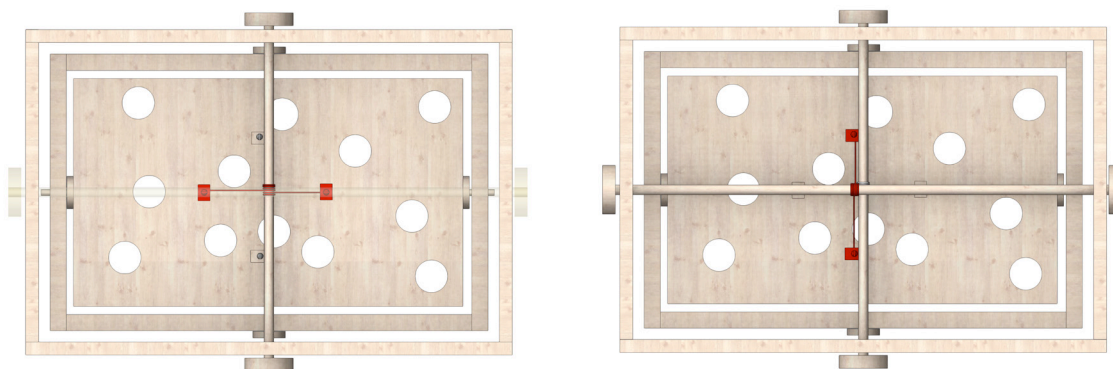


Connect the playing field to the inner frame along the longitudinal axis using 2 round pieces of wood (25mm) and a wooden disc.



Connect the inner frame to the outer frame using 2 round rod pieces (25mm). Before putting them together, place a wooden disc (Ø20mm) between the outer and inner frames on the round rod pieces.

14



Wrap a piece of string about 200mm long around the middle of each axis (A) 3-4 times. Fasten the string to the underside of the playing field as shown in the illustration using a piece of plywood and a screw for each.

**A notice:** Adjust the string tension by carefully tightening the screw!



