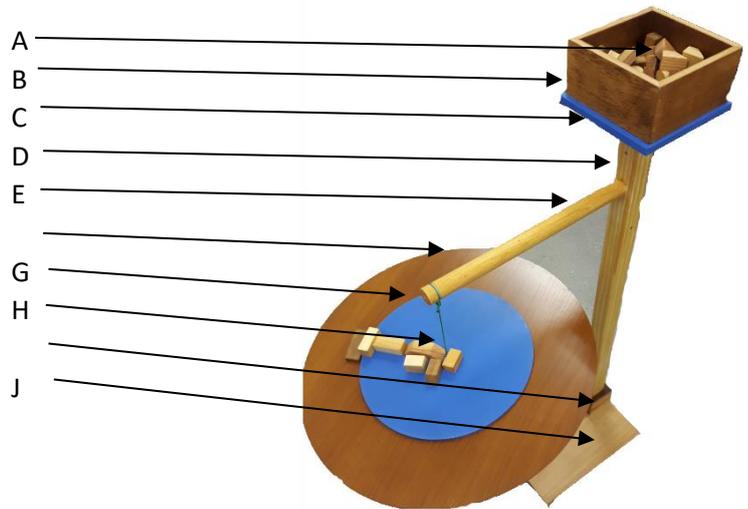


You will find below the tutorial for making the balance game in the photo, but adjustments can be requested if you do not have the equipment or skills to do it. The indicative dimensions are recommended for the use of this game by a group of 8 up to 10 people.

Number and dimensions of the pieces needed to make the balance game:

45 small pieces in various sizes and weights
 box: 200 x 200 x 90 mm
 tray (the base of the box): 220 x 220 x 15 mm
 cleat or vertical pole: 1050 x 50 x 50 mm
 cleat or horizontal bar: 480 x 30 x 30 mm
 large disc: 600 x 600 x 5 mm (centre hole 5 mm) F
 small disc: 350 x 350 x 5 mm (centre hole 5 mm)
 5mm cord or string: 300mm
 square base structure: 80 x 80 x 60 mm I
 base or plinth: 400 x 400 x 3 mm



You can recycle wood for construction such as

- the vertical pole is a footboard
- the vertical pole is a curtain bar
- the discs are the bottom of a wardrobe ...

An existing box or basket can be used instead of making a box. For the 45 pieces, you can also use small parts or objects made of a material other than wood.

The tools, machines and consumables needed to make the game:

- various pieces of wood
- a hand saw and a corner cutting box or a jigsaw, a mitre saw and a circular saw
- sanding paper of different grits (80 and 120) or a sander
- a ruler and a pencil
- wood glue
- a large rubber band
- chisels or a wood lathe
- a chisel or drill with suitable diameter bits and a hole saw
- wood dowels or screws (with a screw driver)
- a paintbrush
- paint or walnut stain
- linseed oil
- weights
- double-sided tape
- a string or cord

Balance game Tutorial

The stages of the game construction in pictures:

1. Collect the needed wood to make the different parts of the game.
2. Cut parts C, D, E, F, G and J to size.
3. Repair any dents or holes with wood filler and glue the cracks.
4. Use a drill to make the holes in the centre of the two circular trays.

5. Make a notch in the end of E so that the string can be put in to prevent it from slipping off the bar.
Decrease the diameter of the other end so that the bar fits into the hole that will be made in pole D.
Sand the part E.



7. Cut a 25mm thick strip into 4 pieces of 80mm by making a 45° bevel cut with a mitre saw or a hand saw with a template to make the base I which will receive the pole D then try to adjust them to see if they fit together correctly.
Sand the 4 pieces and then glue them together, holding them with a rubber band while the glue sets.

6. Make a hole in pole D of the same diameter as bar E.
Sand the workpiece.
Fit or glue part D and E together.
Cut one end of strip D from 50x50 mm to 40x40 mm over a height of 60 mm as for strip E.



8. Measure, mark out and drill holes in the middle of each side for wood dowels.
Put in dowels of the same size as the previously drilled hole.
Make a test before applying the glue.
Do the same on the base plate so that the pegs fit properly.

Balance game Tutorial

8bis. Possibility of gluing part I directly to the tray J with wood glue using a clamp so that the glue sets more effectively without making holes.

9. Paint the plate C and the small disc E or darken them with walnut stain if all the wood is light. Be careful, these parts must be sanded beforehand.

Glue or screw the tray C to the pole D.

Glue the two discs together with double-sided tape or wood glue, matching the two holes to fit the string.



10. Cut 4 pieces of 200mm by 90mm from a piece of wood with a 45° bevel at each end. Check that the pieces fit together and then make a 5mm groove along the length of each piece to slide the base in. Sand the different pieces, make holes on the edge to incorporate flexible bamboo sticks and then fit them together using glue. Put a rubber band around the box.

11. Apply linseed oil to protect the game and the 45 small wooden pieces.

Good manufacturing!