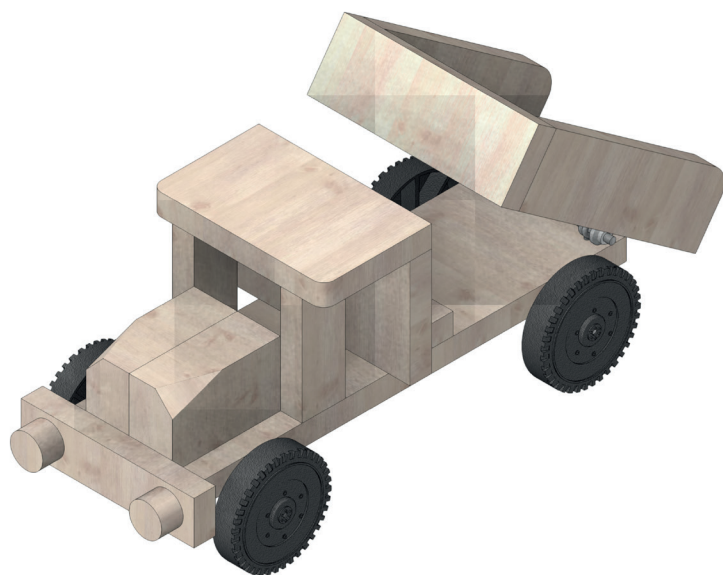


102.908

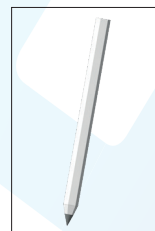
# Tipper lorry



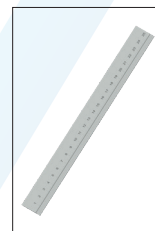
## Tools Required:



Jig saw



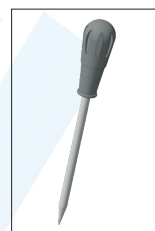
Pencil



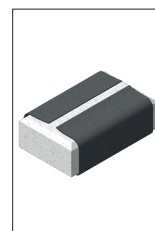
Ruler



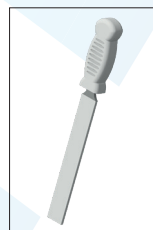
Wood glue



Pricker



Sandpaper



File

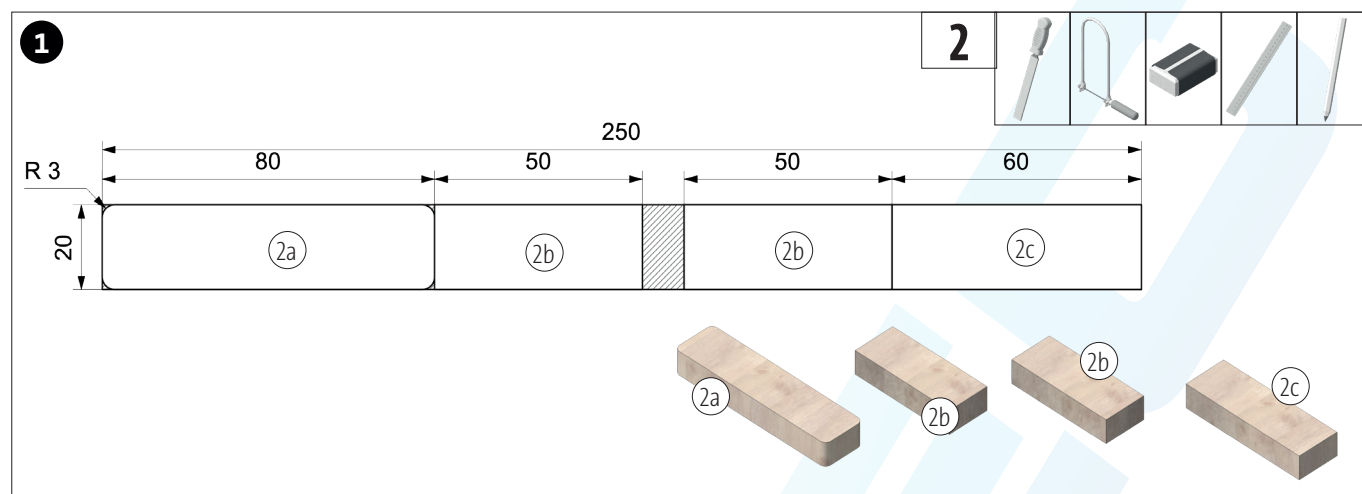


Pliers

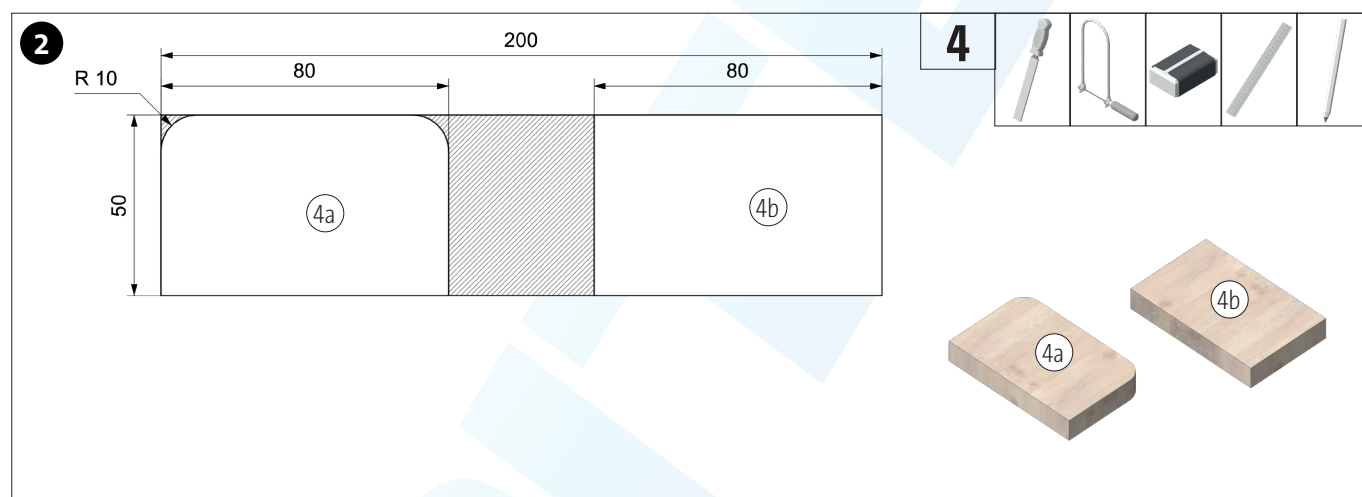
## NOTE:

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!

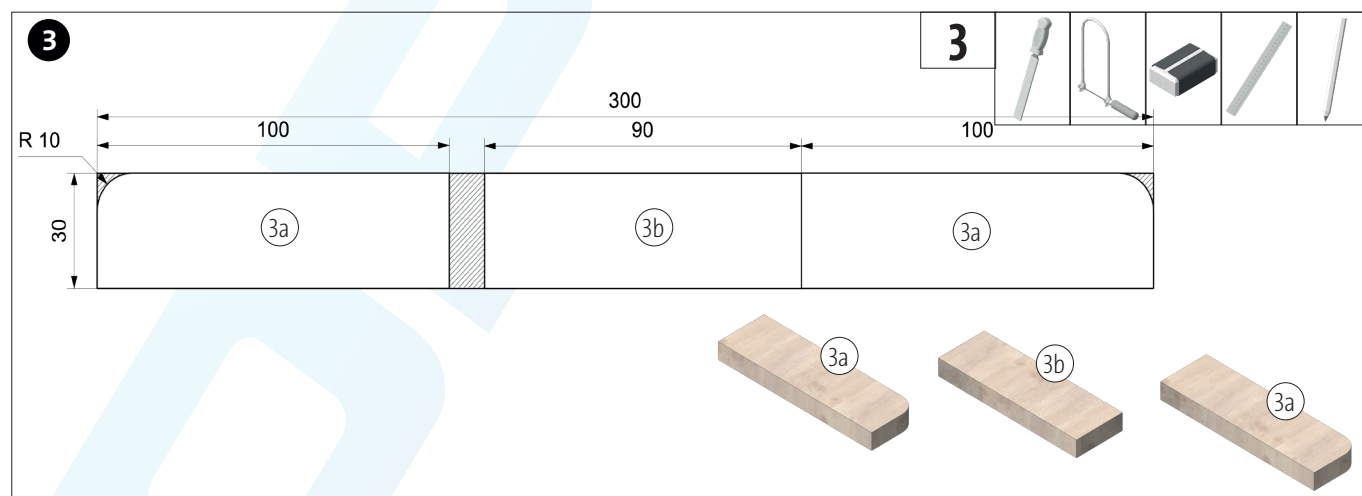
Part List	Quantity	Dimensions (mm)	Description	Part no.
Wooden strip	1	200x60x10	Base plate	1
Wooden strip	1	250x20x10	Bumper, side panels, back panel	2
Wooden strip	1	300x30x10	Tipper	3
Wooden strip	1	200x50x10	Roof, back section	4
Wooden strip	2	50x30x20	Bonnet	5
Plywood panel	1	100x70x10	Floor plate tipper	6
Metal axle	2	ø3x95	Wheel axles	7
Metal axle	1	ø3x70	Tipper axle	8
Ring Screw	8	12	Axle guidance/ tipper lorry	9
Wooden wheel	2	ø15x10	Front lights	10
Spacer	6	2.9	Mounting axles	11
Wheel	4	ø45	Wheels	12



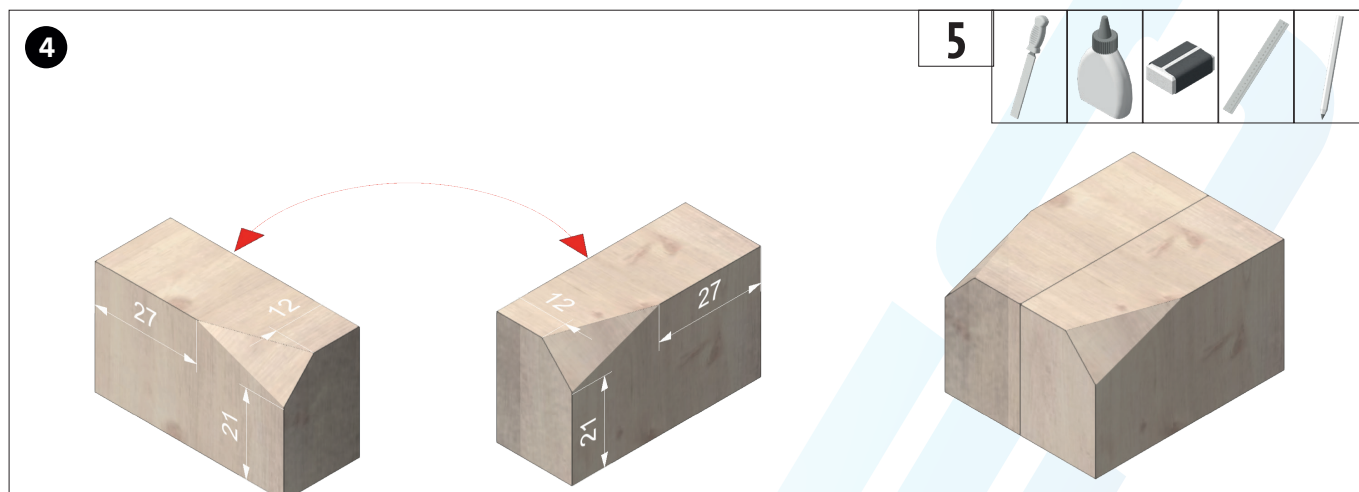
Cut the wooden strip (2) to length according to the dimensions and clean the saw cuts. Round off part (2a) at the corners.



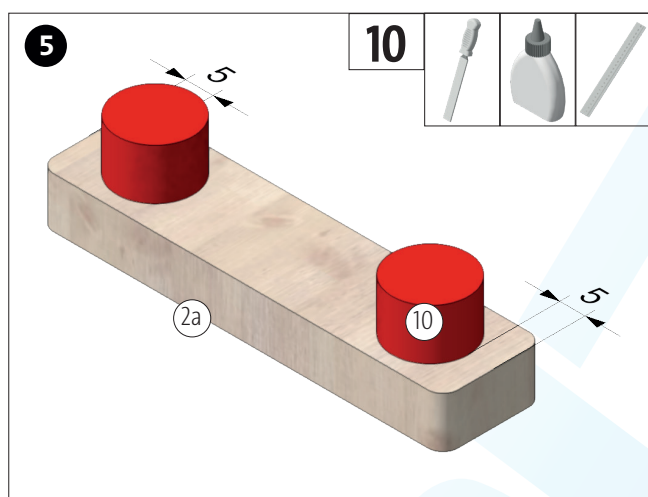
Mark 2 parts with a length of 80 mm on the wooden moulding (4), cut to length and clean the saw cuts. Then round off the two upper corners of the roof section (4a) as shown.



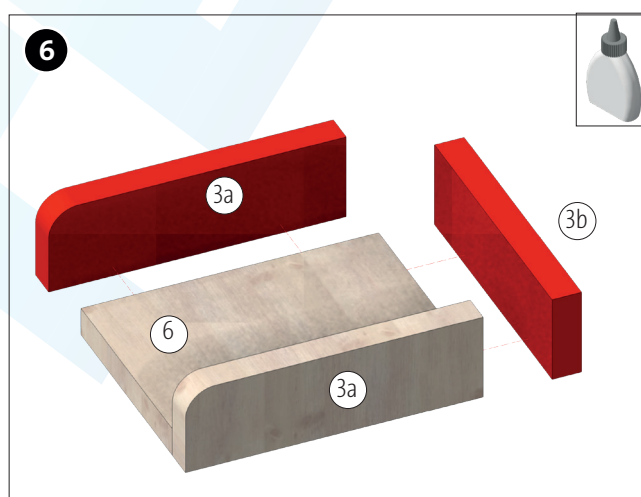
Transfer the dimensions to the wooden moulding (3) and cut the moulding to length. Then round off one upper corner of the wooden moulding (3a) and clean up the saw cuts.



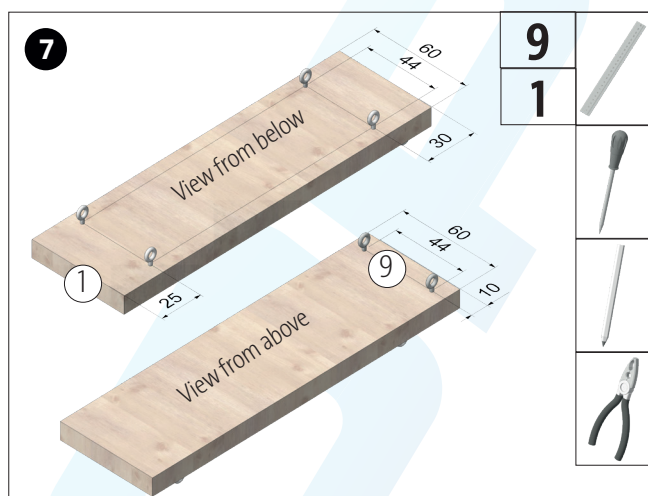
File off one corner of each of the two wooden moulding blanks (5) according to the drawing. Sand the cut to size cleanly and then glue together. Allow glue to dry well.



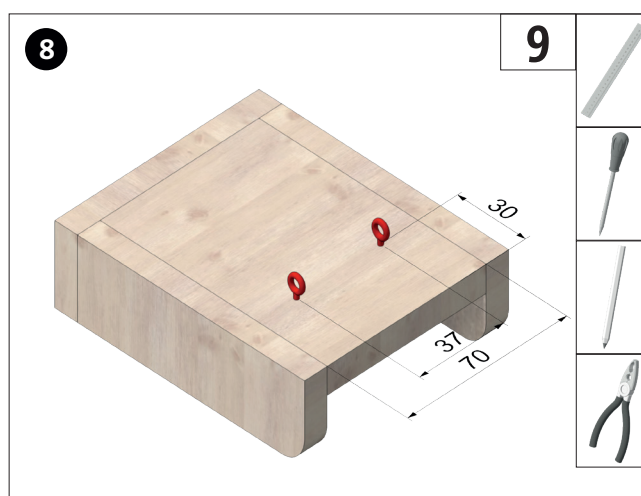
Glue each wooden wheel (10) onto the bumper moulding (2a) from the outside, indented by approx. 5mm and centred.



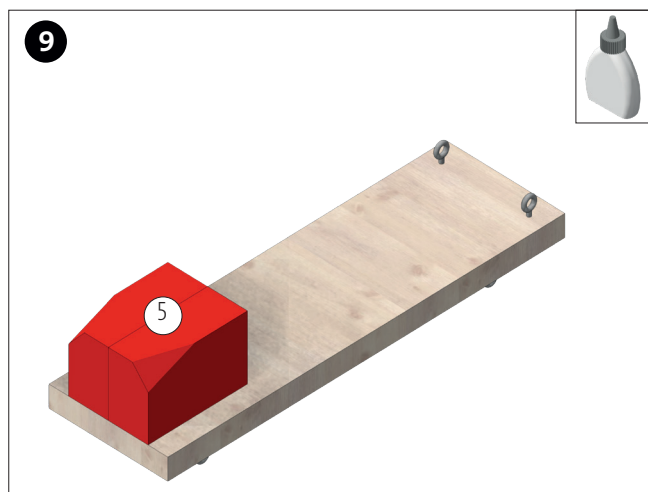
Glue the two side panels (3a) and the part (3b) around the plywood panel (6) as shown.



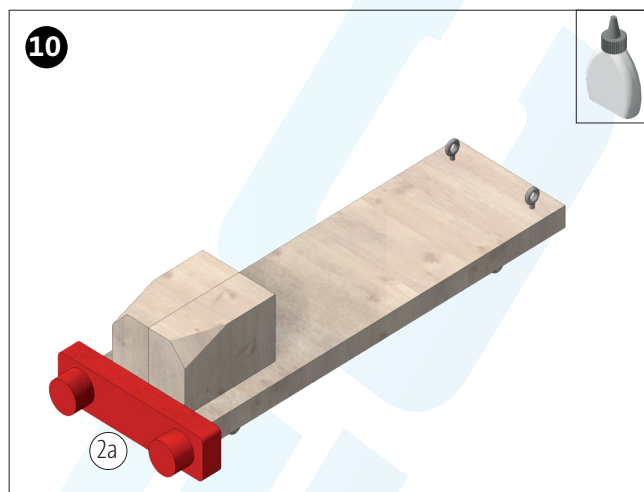
Mark and pre-punch the positions for the eyebolts on the base plate (1) according to the dimensions. Then screw in the eyebolts so that the eyebolts are vertical and parallel to each other.



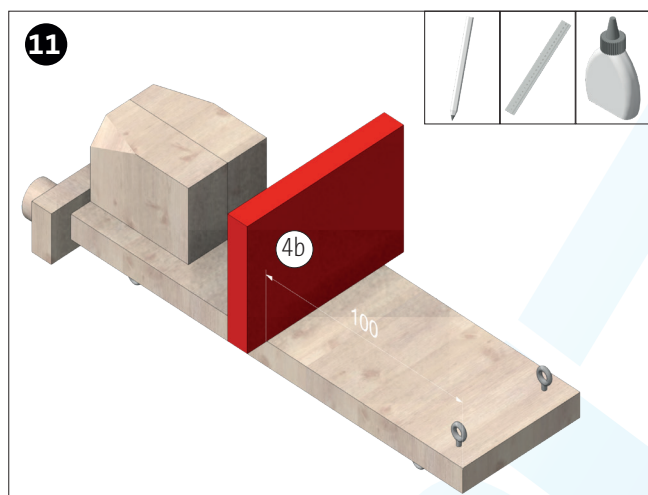
Mark the position for the eyebolts (9) on the underside of the tipper according to the dimensions. Then screw in two eyebolts (9) so that the eyebolts are vertical and parallel to each other.



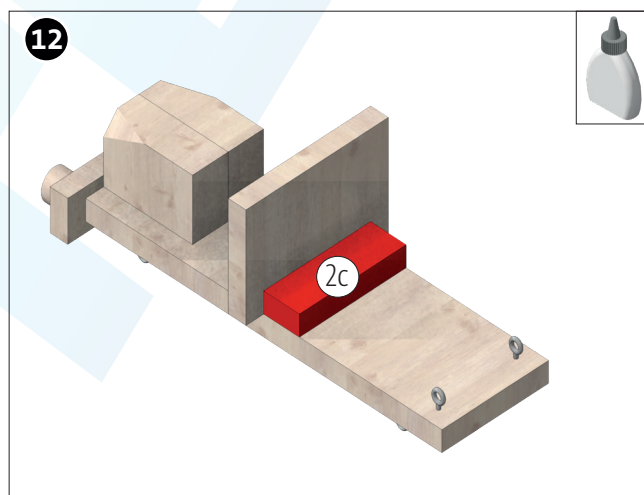
Centre the finished motor block (5) on the top of the base plate (1) as shown and glue it flush to the front edge.



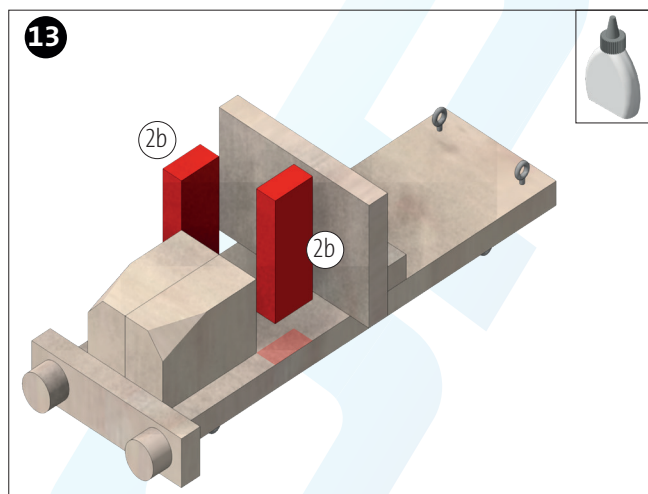
Then glue the finished bumper (2a) onto the front edge, centred as shown above.



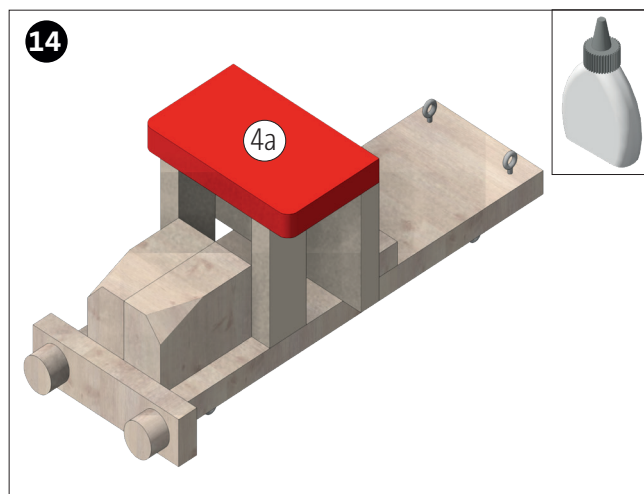
Measure and mark 100mm from the rear edge. Then glue on the back section (4b) centred at this position as shown.



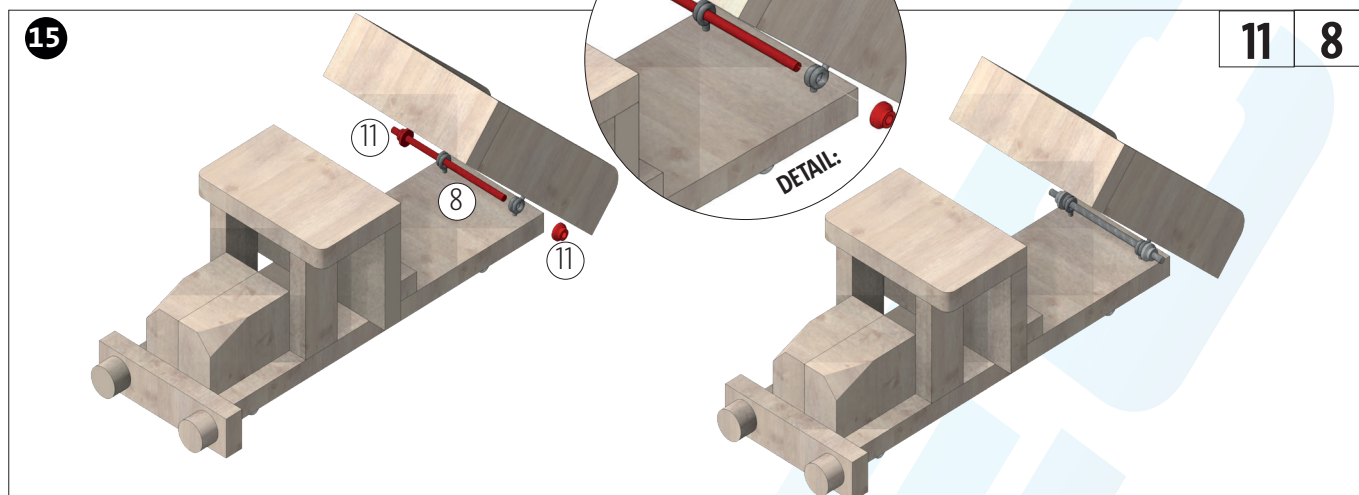
Glue the support for the tipper (2c) flush with the back section (3b) on the base plate.



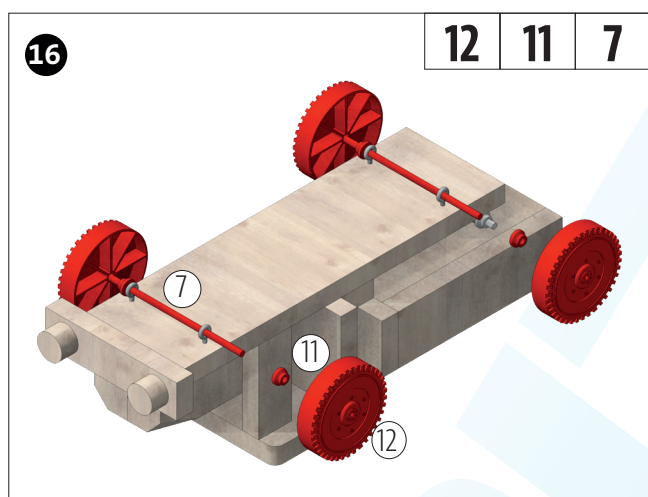
Glue the side parts of the driver's cab (2b) on from both sides as shown.



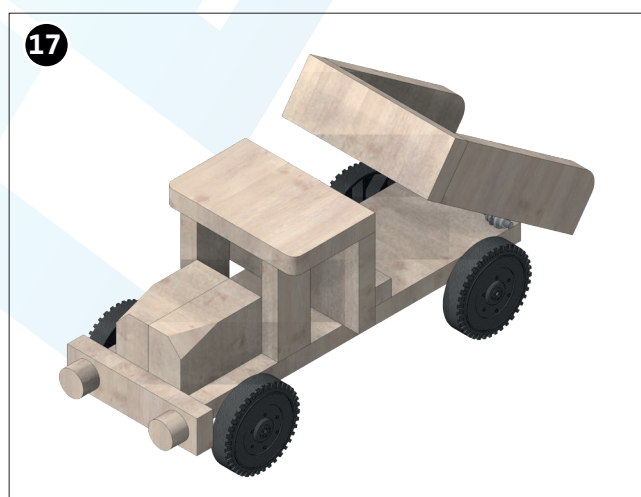
Glue the roof (4a) flush with the rear wall (4b) as shown.



Position the tipper as shown. Insert the metal axle (8) through the eyebolts and fix it on both sides with a spacer disc (11).



Push the two axles (7) through the eyebolts and centre them. Fix them on each side with a spacer disc (11). Then attach the running wheels (12).



The colour scheme is up to you. We recommend acrylic paint or glaze.