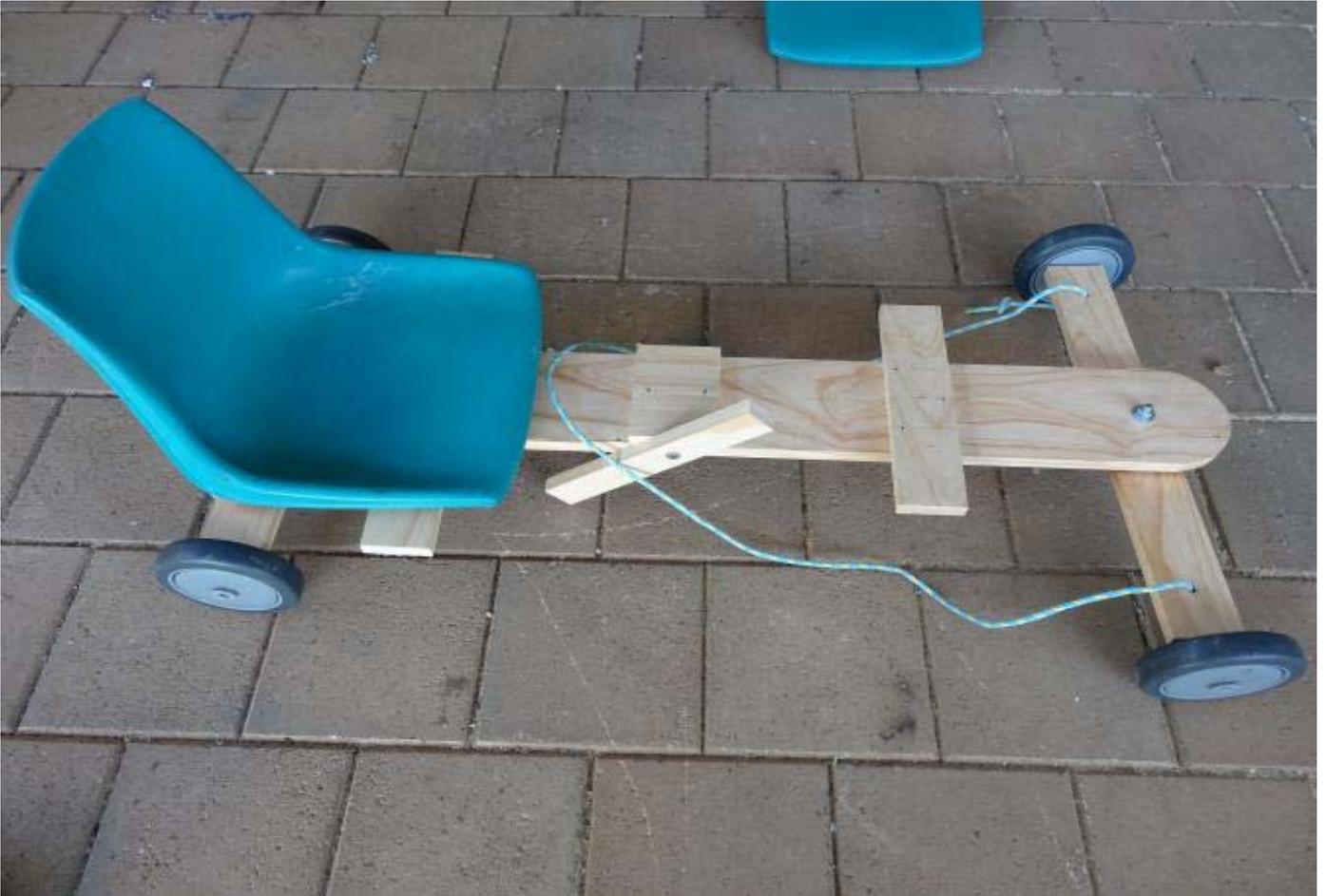
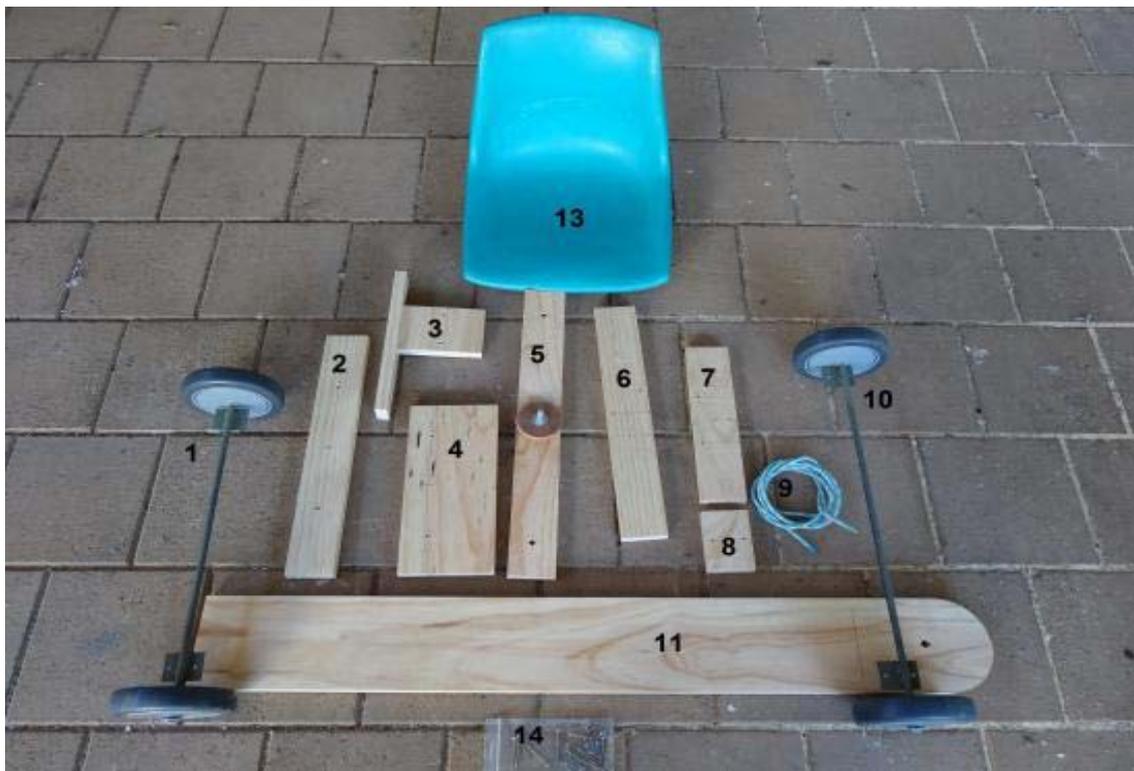


Wooden Billy Cart Plans & Build Instructions



A simple design with hours of enjoyment for the kids and a good bonding experience to be had during the build....

Designed by our hard working NDMA Member Chris Rowe



- 1 Rear Axle (assembled)
- 2 Seat Front Mount Rail (2 angled holes drilled)
- 3 Hand Brake assembly (2 holes drilled)
- 4 Seat RearMount Rail (2 angled holes drilled)
- 5 Front Steering Rail with Mounting bolt and washers in place
- 6 Real Axle Timber (3 holes pre Drilled in Center)
- 7 Foot Rest (3 pre drilled holes)
- 8 Steering Stop Plate (2 pre drilled holes)
- 9 Steering Rope (not cut to length (can not be used if entering the Billy Cart Event))
- 10 Front Axle, (assembled)
- 11 Main Billy Cart Strut (pre drilled for front axle mounitng)
- 13 Plastic Seat
- 14 Bag of assorted screws to complete the assembly





Lay out the main Strut out on the floor(#11)



Bolt the Front Steering Rail (#5) to the Main Strut
The bolt will face upwards and the pencil
line will be under neath (for mounting #8)



when the front Steering rail is mounted it should
look like this with the wood washers between the
main strut and the steering rail.



on the back of the Main Strut, find the center of
the Main Strut to enable th rear Axle Timber (#6)
Mounting



Position the rear Axle Timber to the Main Strut
using 3 Counter Sunk Screws screw the timber
into place ensuring it is Square to the main strut



Position the rear axle above the Rear Axle
Timber, you will notice the axle mounting plates
are center of the axle (front is different)



Line up the Rear Axle so it is center and equal gaps are present at each end and Screw Down



Position the Front Axle above the Steering Rail



Line up the Front Axle as pictured so the axle is offset forward so as to miss the center bolt and rope holes and Screw it down



Position the Steering Stop Block on the under Side of the Main Strut, you will see a pencil line as a reference, then center the block



Once happy with the steering blocks position Screw it down with 2 Counter sunk screws



Here is the steering block in use it limits the front steering rail from turning too far and leading to possible mishap



Position the Seat Mount Timbers on the Plastic Chair as shown, loosley fit the screws to the timber (ensure the angled holes match)



here is a pic showing the angle of the screws through the timber to the seat



With the seat timbers and seat loosly mounted Position it on the main Strut at the back end



Line the back of the Rear set mount timber up with the back of the main strut and square it up and screw it down with the counter sunk screws (2 per seat rail from under neath)



Position the Foot Rest (#7) timber in position this is all dependant on the childs most seating position and screw it down with 3 counter sunk screws once centered



Position the hand brake where best for the child this view shows a LH Hand Brake Position



This View shows a RH Hand Brake Position



Fit the rope through the hole in the steering rail from the top down



Tie a not in the rope once the length is confirmed with the child seated



Here is the finished rope position, please note rope steering can not be used in the Billy Cart event, a steel or similar steering hoop must be used for safety reasons (better Control)



The side view of the front Seat mount, it is fairly wide so that if you are to enter the Billy Cart Event you can use this to mount a 200mm by 300mm Competitor number mounting plate



you can use the front steering bolt to mount a Hook for use in the Billy Cart event to enable to tow the cart back up to the top of the circuit Same must be on the back also.