

Build a Billy Cart

This is a traditional billy cart that's cheap and easy to build, but is strong and safe. It's just the thing to get the kids outdoors.

Step 1:

Cut the parts. You can use a power saw for a quick job, or maybe get the kids to help with a handsaw. Neatness is not really important, so if the kids can't cut quite square it's okay. You'll need to assemble the wheels to the axles so you can measure the lengths of the axle support timber then screw the axles to the supports.

Step 2:

Assemble the seat with 40mm countersunk screws. Screw the chassis bar and rear axle support to the seat. Drill the pivot hole in the centre of the front axle support. Sit the kids in the seat to find the position for the pivot bolt in the chassis bar. It's important that the rider is able to turn the front wheels without a foot falling off the support. If you have kids in a wide variety of sizes, you can drill several holes in the chassis bar and adjust to suit. The pivot bolt must have a locking nut to prevent it from vibrating off.

Step 3:

Drill two 10mm holes in the front axle support and tie-off the steering rope. Fit the brake lever (again using a locking nut)

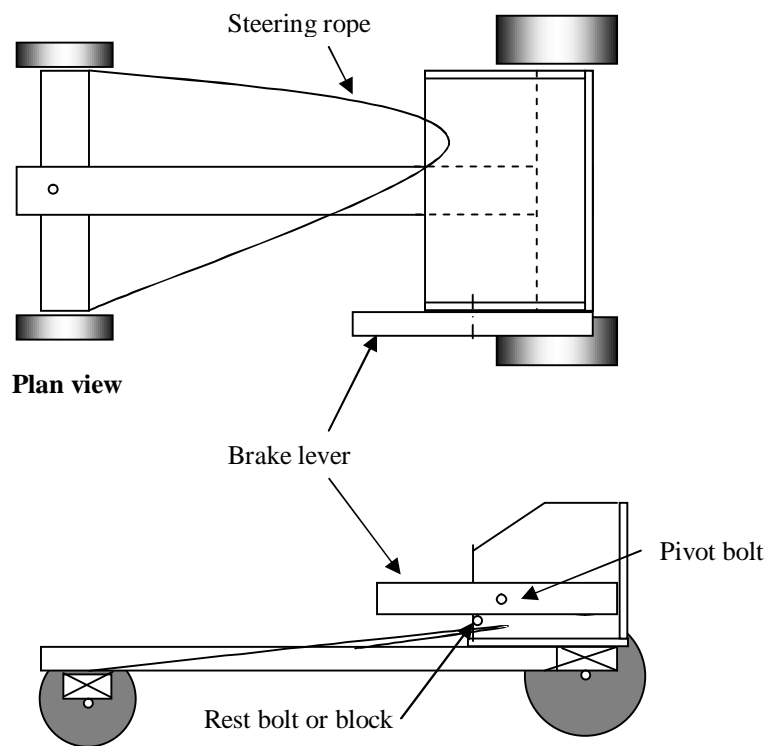
Step 4:

Put the head-gear on the kids and have fun!

<i>Tools for the job</i>	<i>Your Materials Checklist</i>
Tape measure Combination square Pencil Saw (hand or power) Spanners/sockets, pliers Screwdriver bit (Phillips N° 2) Drill/driver and bits	Plywood: 1 sheet 0.9 x 0.6m x 19mm Pine (DAR): 1 length 1.8m x 90 x 45mm 1 length 1.2m x 90 x 35mm Hardware: 2 x 600mm x 13mm diameter axles with plates 2 x 200mm bearing centred wheels 2 x 150mm bearing centred wheels 1 x 100 x 10mm hex head bolt with 4 large washers and Nylok nut (steering) 1 x 75 x 6mm hex head bolt with 4 washers and Nylok nut (brake) 50mm x 8G countersunk wood screws 4 split pins to suit axles 2m x 8mm braided poly rope

Cutting list

Part	N° req'd	Length	Width	Thickness	Material
Chassis bar	1	1200	90	45	Pine
Brake lever	1	600	90	45	Pine
Front axle support	1	500	90	35	Pine
Rear axle support	1	480	90	35	Pine
Seat	1	400	480	19	Plywood
Seat back	1	444	250	19	Plywood
Seat sides	2	400	250	19	Plywood



Side view with wheels removed