What you’ll need to get started on your D.I.Y. Project

**Materials**
- 4 metal-centred wheel with rubber tyres 150mm diameter and snap-on hubcaps
- Eight 12mm washers
- Three 12mm No.6 self-tapping screws
- About 3 dozen 36mm No.8 countersink screws
- 55mm tension spring
- Two 65mm mirror plates
- One 65x65mm round headed bolt
- 2 nuts and washers, four 25mm wire staples
- 1mtr nylon rope
- One 1000mm x 140mm x 19mm softwood
- Four 400mm x 140mm x 19mm softwood
- Two 450mm x 75mm x 19mm hardwood
- One 12mm diameter aluminium
- Two 200mm x 25mm x 19mm hardwood
- Two 50mm x 9mm dowel
- One 550mm x 75mm x 19mm hardwood
- Two steel rods
- One 75mm diameter x 6mm plywood

**Tools**
- Hand saw or jig saw
- Drill
- Wood glue
- Sharp knife
- Tape measure
- Wood finish

**Safety**
- Always keep tools and materials away from children.
- Read the instructions before beginning your project.
- Wear an approved dust mask when cutting, planing or sanding timber AS/NZS1716.

Planning your next D.I.Y. Project

The Bunnings D.I.Y. brochures are designed to help you step the way through your D.I.Y. home projects.

They’ll give you the right advice on what materials you’ll need, how to get the job done and tips and ideas for achieving the best result.

Expert D.I.Y. advice

If it’s advice you’re after, come in and discuss the project with one of our experts. Ask about organising Same Day Delivery, Tool Hire, Installation or even enrol in one of our D.I.Y. classes.

The Bunnings D.I.Y. brochures are designed to help you step the way through your D.I.Y. home projects.

They’ll give you the right advice on what materials you’ll need, how to get the job done and tips and ideas for achieving the best result.

Expert D.I.Y. advice

If it’s advice you’re after, come in and discuss the project with one of our experts. Ask about organising Same Day Delivery, Tool Hire, Installation or even enrol in one of our D.I.Y. classes.

For more information go to www.bunnings.com.au
www.bunnings.co.nz
How to D.I.Y. Build a Billycart

A billycart must be sturdy and easy to steer and stop. It is steered by the feet and hand-ropes.

Please Note: Information in this brochure is Bunnings’ opinion and we don’t warrant the accuracy or completeness of that information. Bunnings excludes all liability in relation to the statements in this brochure.

Cut softwood parts [1 and 2] to length (Fig 1). Round off the top front corners of the sides and the front corners of the centreboard with a rasp. Glue and screw the front rail [3] to the seat boards [2], flush at front and sides, using four screws for each board. Glue and screw the rear rail [3] flush at the sides but about 30mm clear of the back. Position at the centreboard [1] between the short seat boards. Glue and screw the rails to the centreboard. Drill the axle hole in each side [2] about 25mm from the bottom, and 75mm from the back edge.

Push the axle in. Rest the chassis on it. Line up the sides flush with the front and rear of the seat. Glue and screw them to the edges of the seat, as shown in Fig 2. Position the rear wheels, using washers. Drill a 12mm hole in each side, 9mm in front of the wheel and 32mm from the bottom. Drill a similar hole through each brake [6] 32mm from one end. Drill a 4mm screw hole at right-angles into this hole. Round off both edges of the brakes and sand all the edges. Push the brake tube [5] through the holes in the sides. Fix on the brakes, fitting washers to keep them in line with the wheels. Push the brakes forward to the on position and drill a 2mm hole in the tube, through the holes in the brakes. Secure with a self-tapping screw (Fig 3).

Turn the cart over and drill a similar hole in the bottom centre of the tube. Anchor one end of the spring here with a self-tapping screw and washer. Stretch the spring 25mm towards the front of the cart, and fix with a screw and washer (Fig 4). Drill holes and glue to the stop dowels [7] in a position to hold the brakes off the wheels. Enlarge the hole in the rounded part of the mirror-plates to make a tight fit for the front axle. Bend each plate with pliers, just below the large hole, to form a right-angled bracket (Fig 5). Attach the brackets into the steering rail [8] flush with the ends and rear edge. Make the cross-grain depth cut first, using a sharp knife, then the depth cut along the grain. Pare from the edge with a chisel until the axle in the brackets touches the rail. Screw the brackets on (Fig 5). Secure the axle with staples in pilot holes. Drill a hole for the pivot bolt through the centre of the steering disc [10], the centreboard about 75mm from the front and the steering rail about 12mm in front of the axle. Fit the bolt with a washer top and bottom, and lock with two nuts. Drill a rope hole near each end of the steering rail in front of the axle. Knot the rope. Fit the wheels.

D.I.Y. Hints and Tips

1. Regularly check the nuts holding the front axle.

2. If you are going to varnish the billycart, do this after completing each stage of the assembly; but leave the wood bare where glue is to be applied.

For further expert advice consult the qualified Team Members at your local Bunnings Warehouse.