## **Pirate cubbyhouse**



If you have fond memories of playing in a cubbyhouse when you were young, the why not make this one for your kids? It takes the idea just a bit further ...

Follow the instruction sheets and pick up tips from the photos.





STEP 1 Set out the site. Make sure wherever you put it that you can get the mower around the back. The main part of the outby is 2400 ± 1800mm. It is supported on 90 × 90mm. posts set in ground screws, so the centre of the screws will be about 50mm in from the will make building the cubby easier. edge all around to allow for the thickness of the posts. Therefore, the set-up will be 2300 STEP 3 Use a plane to take the sharp s 1700mm. Drive in the page and check that edges off the timber to be used for posts. the diagonals of the rectangle are equal so you know that the cubby will be square. Add fifth pegiat the front, centred, and 965mm out from a line between the front pegs.

level. Screw in all 5 screws. As the screws problem of the arrises spintering.

so in deeper, they'll be more difficult to turn. so use a length of timber in the fork to drive them in. On a site that's almost fait, check the acrews finish at about the same height using a longlength of timber and a spint level as these

edges off the timber to be used for posts STEP 5 Fit all 4 main posts in the same not long enough, move the bearer away and (A) and bearers and joists. The posts are made of LOSP price and the other timber is plain pine. As the cubby is to be painted and is positioned off the ground, untreated pine should give 10-15 years of service. The use STEP 2 Drive in a ground screw with the of CCA treated pine is not recommended in steam areach pag postion and try to get it areas where there may be human contact. end extends 45mm beyond the post. To holes diagonally, Repeat on the other side to the lock fill, notify but the inside fice.

shoe of the ground screws that form the ito the posts so the top of the bearer will rectangle. Place a 10mm packer under each post, align the post and drill through the U and post to temporarily bolt the post in place. The packer ensures that water does not sit that it is level through to the other end, then under the post and lead to narly rotting drill through the U and post into the bearer

way and brace them in position with thirber finish ciriling through the bearer props to the around and other posts to they are all plumb. Once secure, remove the bolts STEP 7 Put the bearer back in place from 1 side.

If the beam is low to the ground and sits ground screws.

STEP 4 Stand the posts in the U-shaped over the shoes of the ground screws. Camp be 220mm from the ground at the highest point on the ground. This gives a minimum of 30mm clearance to the ground. Check to mark the bolt holes. As most drill bits are

> and push the cuphead boils through from the outside. Add a washer and a nut, and Continued overleaf



STEP 8 From the overhanging back end, measure 400mm intervals along the bearers as the positions for the joists (C). To fit joists with the tops flush with the bearers, use 4514D joist hangers to fix the 5 centre joists. This saves on height compared with joists sitting on bearers. Use an offout of the joist to set the position of the joist hanger, then nail one side of the hanger to the bearer. Nail all the joist hangers to both bearers.

STEP 9 Place the joints in the hangers, then nall off to the sides of the joist and into the beaters. Nail the back joist to the posts and from the bearers into the ends of the joist.

STEP 10 Set the bow post (D) in place and bolt on as with the other posts. Hold the  $\widehat{\mathbb{Z}}$  bow bearers (E) against the bow post and against the front face of the main posts to mark in the angles directly from the cubby (should be about 39" and 51"). This requires a little trial and error to get the length aust right. Start long and work back slowly Nail to the posts and across the joint at the front. Follow up with coach boits into the posts.

STEP 11 Measure the length and out the short joists (F) of varying length for the front with an approximate 51° angle at each corner and sail on from the outside. Also add a second joist with square ends between the

floor sheets can be nailed where they are joined. Reinforce with batten screws.

STEP 12 Cut the 2 greated plywood panels for the rear floor. (G) and notch around the posts so the rear sheet will bear on half the joist. Apply the glue to the joists. and bearers, then nail down with decking or galvanised flathead nails.

STEP 13 At the front, cut the floor sheet with a notch to fit around the bow post, and glue and nail down as before. Mark the ancie of the bow bearers on the top surface, then out off excess flooring so it will be flush with the edge of the bowbearers Also add a small Foor infill offcut in front of the bow post.

STEP 14 Cut the main posts to a height of 1550mm (kid's height) above toor level and mark all the way around with a square. Head height could be increased and will only affect. the length of the alt wal acuds and sheeting. Similarly, mark and square around bow post so it linishes 800mm above foor level. Cut as for as you can with a power saw, then finish with a handsaw. Nail, then bolt the too beams. (H1, HZ) to the outside of the main posts.

STEP 15 Nail the side wall places (11) to the jack study (I2). From the top of the full height

posts where the angled front starts so the wall studs (I3), measure 190mm down the inside, join to the outside top and out off the triangle. Nail stud to the ends of the plates. then sail the trame assembly to the back post and floor, as well as through the angled section of the stud to the top beam.

> STEP 16 In a similar way nail the alt wall plates (i1) to the study (i2). It between the posts and nail in place. The top plate creates a small shelf at the top.

> STEP 17 Cut more of the Phyline as side sheeting (K) and glue and nail to the side formes. Then cut the 2 pieces of all sheeting (...), this time to the full height of the frame with the process running vertically and juined down the middle.

> STEP 18 Hold a 1400mm-long piece of timber to use for a bow plate (M1) on top of the bow post and against the main cost. Use a sliding bevel to transfer the angle between them to the plate and out the angle. Repeat for the angle at the other end. Again, this requires a certain amount of trial and error to get the right length.

> STEP 19 As the plates meet the posts at an angle, reduce the width of the plates by ripping them to a narrower width to suit the main and bow posts.

STEP 20 Nail down the bottom plate, add the 2 end studs (M2), with the broad face flush with the cutside of the plates. Add the centre stud. Nail on the top plate and screw to the main and how posts. Clad the front frame assembly with bow sheeting (N) as for the pide panels.

STEP 21 Mark in two 200mm-diameter portholes in the aft wall using the base of a 4-litte paint fin. Or use a makeshift compass made of 2 lengths of timber screwed together at 1 end, with 1 length starpened and a pencil taped to the other. Centre the portholes 250mm down from the top of the att panels. After drawing the circle, prednil with a wide 10mm bit, then out around the circles with a jigslaw

STEP 22 Install an intermediate beam (0) between the top beams at the side wall stude. This is needed to support the roof structure.

STEP 23 Mark out the gable ends (P) by finding the centre of the top edge and squaring a line down. From the bottom of each side, measure up 100mm and join to the centre of the top edge. Cut off the triangles. This full-size gable is used at the back, but the front gable needs to have 45mm cut off from each end. To nail the front cable in place, temporarily nail a better to the



automatically gives the gap needed at the outer edge so the roof sheeting when fitted will also sit on the edge of the side beams. Repeat at the back, but as it is on the outside. the gable end corners can be aligned with outer edges of the beams.

screw in place so it is centred and the top edges of the tidge are flush with the slope on the gable ends.

STEP 25 Rafters (R1) are located at roughly 600mm centres. Take the length of the rafters from the distance between the ridge and top plate wong the line of the gable end. Also, take the angle of the "plumb out with a sliding bevel where the ridge joins the gable end: Cui 1 rafter and adjust until it. fits perfectly. Then use it as a pattern to cir. the other rafters. Support a rafter on the side beam so the top surface will be in line with the tops of the end gables, and nall to the beam. Do the same for its opposite rafter, then pull them into position, opposite each other at the ridge. Fix in place by skewnaling. Repeat for the other pair of rafters. Out roofing clears (R2) to support the roofing at the gable ends and to fit between the ridge and the beams. Screw on from the outside.

biam, 100mm down from the top. Place the STEP 26 Cut the reofing (5) to size and from each piece and sorew together to make short-gable on top and nail to the beam. This inalito the rafters, allowing a 45mm overhang the equivalent of a 50 x 50mm-trick post. at each end and butting the sheets at the top. This leaves about a 100mm overhang along the sides, which creates a handy wide drip line for when it rains. Seal the top join with a bead of silicone after the oubby has been painted. If the 90" front corners are of concern to you as you walk past the cubby, STEP 24 Cut the ridge (Q) to length and out off a 50 x 50mm triangle to save the adult hoads.

> STEP 27 Nal wheel wall plates (T1) to the studs (T2), and add the wheel mounting rall (T3) between the studs at the top. Screw in place against one of the studs, but set the frame back 12-13mm to allow for the lining.

STEP 28 Glue and ecrew on the inner wheel wall lining (U), then find the middle of the wall across the top and measure 100mm down. Drill a 10mm hole for a cuphead bolt to fix the steering wheel, but don't fix it until the wall has been painted. Screw on the oster lining without glue so you have access to the bolt.

STEP 29 As a freishing touch, add a prow (V), or mose of the ship, by measuring 100mm down from the top on both pieces and joining this to the halfway mark across the bottom. Cut off the long narrow triangle

Screw this to the front of the bow post with 125mm batten screws.

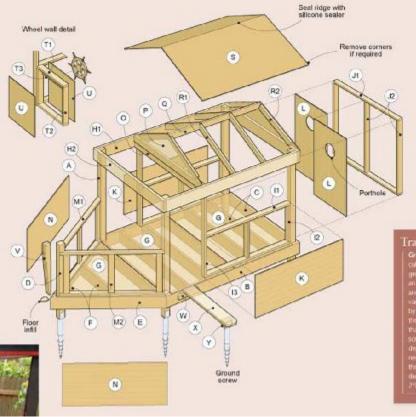
STEP 30 Paint the good ship in the colours of your choice. The colour Black Pearl may be flavour of the month but, according to a survey, 60% of pirate ships include heavy lashings of red as well as black. We used Capaicum red and black, and clear decking oil for the deck. When dry, but the steering wheel to the tail, tightening it enough so young kids are unable to turn it and trap their hands in the spokes. As the kids get older, you could slacken off the nuts so the wheel can be turned. Apply silicone along the roof ridge to ensure it sheds rainwater.

STEP 31 No pirate ship is complete without a plank. Cut a cleat (W) and screw it to the side of the bearer on the port side of the boat, 45mm from the top of the feoring. Drive in the last ground screw about 900mm straight out from the opening in the side of the cubby. Wind down until the plank (X), placed on the cleat and shoe of the ground screw, slopes down from the cubby. Screw a block (Y) into the shoe to raise the plank to level, then screw the plank to the cleat and block. This is safer for young kids than a springy board.

Sociates Contraction by John Rus, Saynedgoty Far streng, GHZ 105 193 Sprinny only, Conv Value Conjectry, GHZ 141 556, Tennes Richt nach, GHZ 733 1000, Davim Sarrosh, DIS Contractions, 902 1990 1282, Grand Latins, for and ASTen school of 20 mail, Kinner Antolia, 923 1034 2084 or some 







\*Cut back later to 1950mm (A) and 800mm (D) above finished flow level. If higher of the ground at any point, allow sens length in items A and D \*\*Take exact size off cubity an it is being built.

You'll also need 6 Kinner ground screes (865nm long uil do in most cases on fait ground, other scree walable); 175nm coath screen (10), 45140 Phydi, joist hangers (10) and timber connector nails; 150nm cupited bits, wathers and nubs (8); 155nm cupited bits, wathers and nubs (8); 155nm screen screen; part (Lipticamed, black); silicone sealart; timber screen; wheel (uptional)

Notes Crick all dimensions against the cubby is it is being built, as small variations can beep in when building something this size on megular ground.





structure the Shuchare, you steeply ansure screws – there's no concrete footing to be gup. The ground screws have a life of about years in most structions.

## Gather your supplies

• A\* Posts (4) 90 x 90 x 2100-2400mm LOSP pine B Long bearers (2) 190 x 45 x 2445mm pine C loists (6) 190 x 45 x 1800mm pine D\* Bow post 90 x 90 x 1100mm LOSP pine E\*\* Bow bearers (2) 190 x 45 x 1420mm pine F Short joists (total) 190 x 45 x 5400mm pine G Flooring (3) 1890 x 1200 x 12mm Plyline plywood H1 Top long beams (2) 190 x 45 x 2400mm pine H2 Top cross beams (2) 190 x 45 x 1890mm pine I1 Side wall plates (4) 90 x 35 x 1565mm pine I2 Side wall jack studs (4) 90 x 35 x 630mm pine I3 Side wall studs (2) 90 x 35 x 1550mm pine. If Aft wall plates (2) 90 x 35 x 1620mm pine J2 Alt wall studs (3) 90 x 35 x 1290mm pine. K Side sheeting (2) 1600 x 700 x 12mm Plyline plywood L Alt sheeting (2) 1360 x 810 x 12mm PlyIne plywood M1\*\* Sow plates (4) 90 x 35 x 1400mm pine M2 Bow studs (6) 90 x 35 x 630mm pine N\*\* Bow sheeting (2) 1300 x 700 x 12mm Plyline plywood O Intermediate beam 190 x 45 x 1800mm pine P Gable ends (2) 1890 x 525 x 12mm Plyline plywood • Q Ridge 90 x 35 x 1760mm pine R1\*\* Rafters (4) 90 x 35 x 1050mm pine R2 Roofing cleats (4) 90 x 35 x 850mm pine S Roofing (2) 1900 x 1200 x 12mm exterior plywood T1 Wheel wall plates (2) 90 x 35 x 700mm pine T2 Wheel wall studs (2) 90 x 35 x 630mm pine. T3 Wheel mounting rail 90 x 35 x 630mm pine U Wheel wall lining (2) 700 x 700 x 12mm Plyline plywood. V Prov (2) 90 x 45 x 800mm pine W Cleat 90 x 35 x 350mm pine offcut. X Plank 190 x 45 x 1100mm pine Y Block 90 x 90 x 180mm LOSP pine offcut.