



Occupying little more space than a twin bed, this multipurpose structure provides room for sleep, study, and storage. The elevated bed is low enough to ensure sitting headroom for older children, the adjustable desktop has ample area for serious study, and the handy wardrobe catches the closet overflow.



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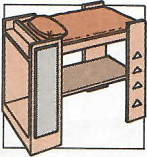
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EFFICIENCY EXPERT

Teen loft bed with desk & wardrobe



Maximize a teenager's room with this all-in-one environment. In little more space than that taken by a twin bed, this structure of-

fers a broad desk, several shelves, closet space, and a lofty twin bed.

For this project, you'll need basic tools, a saber saw, and a radial-arm or table saw. Use a plug cutter to cut the plugs from scrap wood.

Refer to the drawings on pages 88–89 as you work.

1. Cut all pieces to size. For the fir plywood, no layouts are needed—cut platform **O** and desk top **P** from one sheet each, then cut cleats **K**, **L**, **N**, **Q**, and **R** from the remaining pieces.

Round the upper corners of closet sides **A** and uprights **E** at the radius shown in Detail 2. Cut the triangular ladder holes in one upright **E** (see Detail 2). Cut the screen molding to fit across the horizontal edge of each triangular hole and attach the pieces with brads.

Notch the corners of closet back **B** as shown in the cutting layout. Also notch both ends of notched rail **J** to fit over side rails **H** as shown.

2. To assemble the closet cabinet, glue and nail closet base **C** to two supports **D**. Then glue and screw closet back **B** to support **D**, using 2-inch screws. Glue and screw closet sides **A** to back **B** and supports **D**.

3. To assemble the other side, glue and nail one shelf **G** to two supports **D**. Glue and screw end support **F** to support **D**, then add uprights **E** (be sure to place the upright with the cutouts on the side of the bed that will face forward). Screw remaining shelf **G** in position as shown.

4. For the bed frame, round one end of each side rail **H** at the radius shown. Glue and screw end rail **I** into the side rails, using 3½-inch screws. Countersink the screws. Glue and nail cleats **K** and **L** onto the inner faces of side rails **H** and end rail **I**. Glue and screw through rails **H** into bed supports **M** as shown. Countersink the screws. Measure, then cut and attach short cleats **N** with nails.

5. Nail platform **O** to the cleats and bed supports. Screw through rails **H** into notched rail **J**, resting the lower edge of **J** on the platform support.

6. Determine the desired desk height. Then drill holes for carriage bolts through remaining two supports **D**, back **B**, and end support **F** as shown. Attach the supports with carriage bolts.

7. Glue and nail desk cleats **Q** and **R** around the edge of desk top **P**. Apply the plastic laminate to the desk top with contact cement and trim the edges (for instructions, see page 73). Drill coun-

tersink and pilot holes in desk trim **S**. Attach the trim.

8. Drill holes for the carriage bolts that connect the uprights to the bed frame. Drill counterbore holes inside the frame for the washers and nuts.

9. Plug all screw holes. Set all nails and fill the holes. Sand as required. Seal, then apply two coats of paint to all outer plywood surfaces as shown in Detail 2. Finish remaining areas with two coats of clear finish, sanding between the coats.

10. With a helper, move the components into the room. Lay the end cabinets on their sides and bolt the bed frame to them. Stand the assembly upright. Bolt the desk in place and add the mattress. Attach the closet pole end brackets; trim and add the closet pole. Mount the mirror where shown in Detail 2.

Design: Don Vandervort.

BUY		TO MAKE	
Birch plywood (shop grade)			
3	¾-inch 4 by 8-foot sheets	Pieces A–C and E–G (see Detail 1)	
Clear pine or Douglas fir			
3	8-foot 2 by 8s	2 Side rails H : 1½" by 7¼" by 85"	
		1 End rail I : 1½" by 7¼" by 43½"	
		1 Notched rail J : 1½" by 7¼" by 43½"	
4	8-foot 2 by 3s	6 Supports D : 1½" by 2½" by 43½"	
		2 Bed supports M : 1½" by 2½" by 40½"	
1	6-foot 1 by 2	1 Desk trim S : ¾" by 1½" by 62½"	
Fir plywood (grade AD)			
2	¾-inch 4 by 8-foot sheets	2 Cleats K : ¾" by 1½" by 62½"	
		1 Cleat L : ¾" by 1½" by 40½"	
		2 Cleats N : ¾" by 1½"—cut to length	
		1 Platform O : ¾" by 40½" by 85"	
		1 Desk top P : ¾" by 42¾" by 63¾"	
		2 Desk cleats Q : ¾" by 1½" by 39¾"	
		2 Desk cleats R : ¾" by 1½" by 63¾"	

MISCELLANEOUS

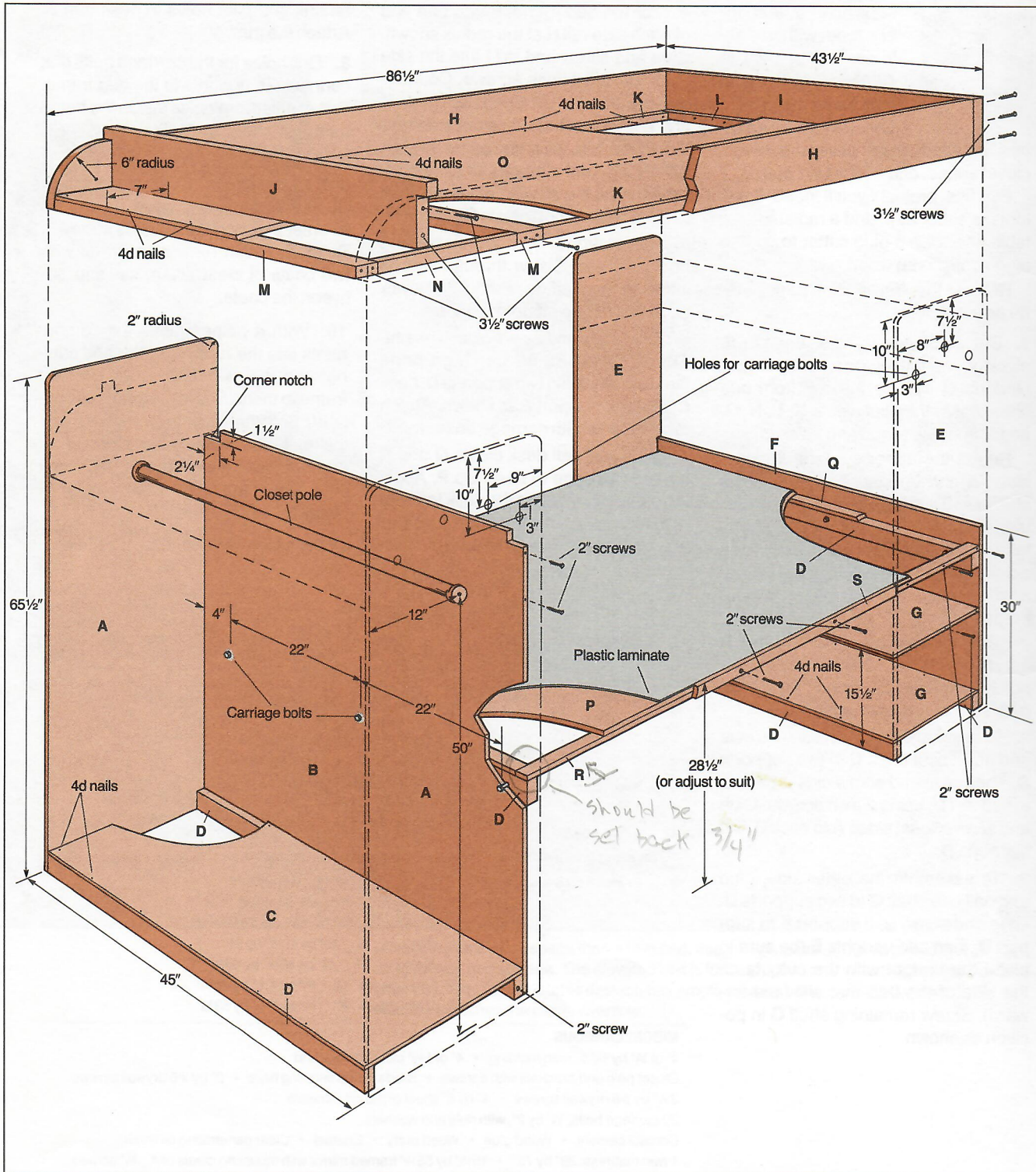
4' of ¼" by ¾" screen molding • 4' of 1½" closet pole round
 Closet pole end brackets with screws • Brads • 4d finishing nails • 2" by #6 drywall screws
 3½" by #8 drywall screws • 4' by 6' sheet of plastic laminate
 20 carriage bolts, ¼" by 2", with nuts and washers
 Contact cement • Wood glue • Wood putty • Enamel • Clear penetrating oil finish
 1 twin mattress, 39" by 75" • 15½" by 55½" framed mirror with mounting cleats or 4 ¾" screws

screws

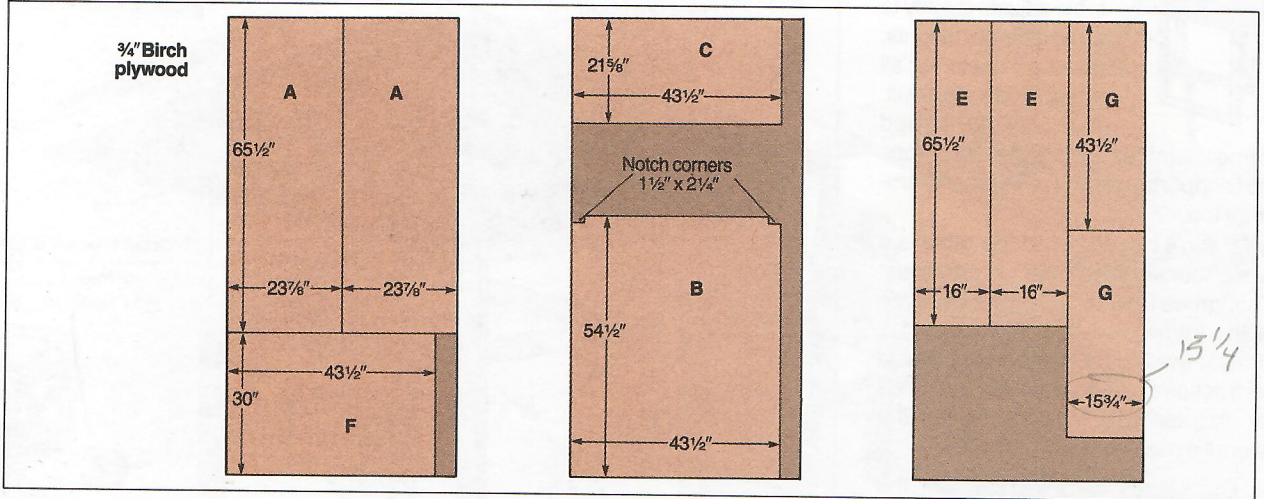
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Detail 1: Plywood cutting layout



Detail 2: Paint & ladder layout (front elevation)

