

## Gun Rack

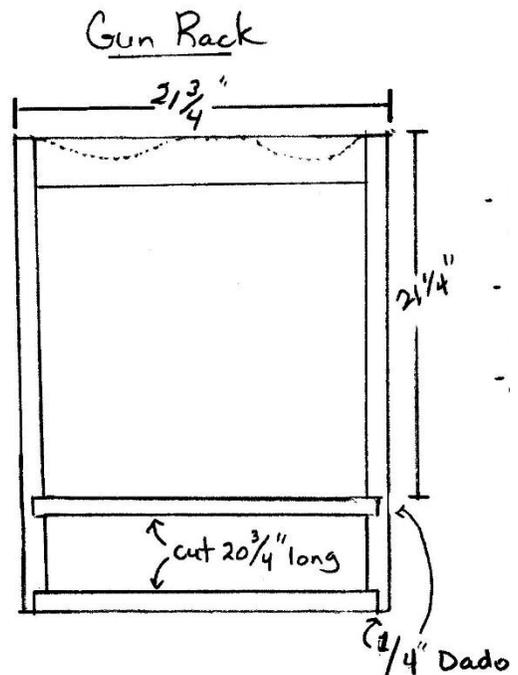
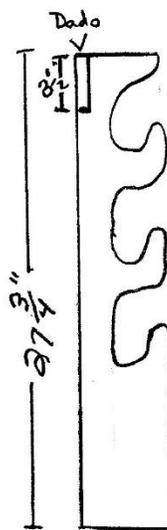
Take a look at the sample Gun Rack. You will be creating an exact replica by following the plans.

**Safety:** You must be trained to use the Router, Table Saw with Dado Blade, Band Saw, and Compound Miter Saw before doing this project.

**Note:** Measure twice before cutting.



Materials: 1" x 5" Pine



### Procedure:

#### Sides:

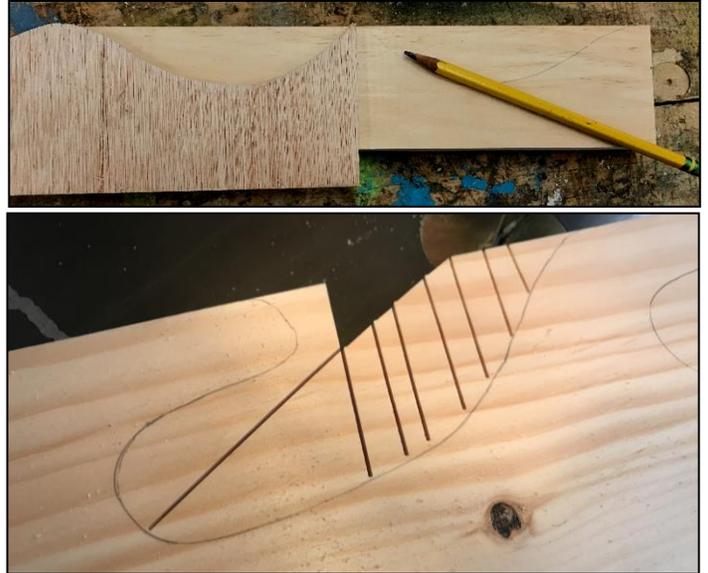
1. Cut two (2) pieces of 1" X 5" Pine board 27  $\frac{3}{4}$ " (70.5 cm) long. Plan your cut so there are no knots where the gun holders are located.
2. Use the template to mark the gun holder location on each side piece. **Stop!** Show your teacher.
3. Cut out the gun holder location on the band saw.
4. Use 120 grit sandpaper to sand the edges smooth.
5. Mark the 3 dado cuts on each side and make sure the two sides match. Cut the Dados on the Table Saw. **Stop!** Let your teacher watch you make the cuts.

#### Shelves:

1. Using the compound miter saw, cut two (2) of 1" X 5" boards 20  $\frac{3}{4}$ " long for shelves.

**Top:**

1. Cut a 1" X 4" board to 21 ¾" (55.3 cm) long.
2. Create a symmetrical pattern on a panel board that is half the width of the top. The top board will carry the weight of the guns (so make sure it carry the weight).
3. Trace your pattern onto the board. Cut it out with the band saw. (Don't forget relief cuts)
4. Router the fancy edge. **Stop!** Let your teacher watch as you do this.

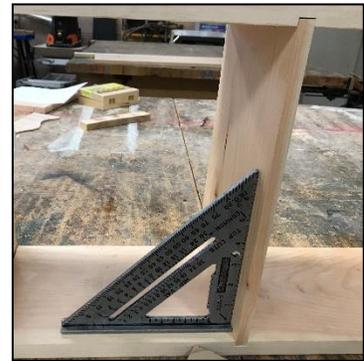


**Assembly:**

1. "Dry fit" your three cross pieces and measure that the distance is equal to and bottom. **Stop!** Show your teacher.
2. Put glue in the dado slots (**not** the top board dado slots) and place your shelves in place. (keep glue away from edges – see photo)



3. Use a **Square** to make sure your shelf is "square" before the glue sets. **Stop!** Have your teacher check this step.
4. Carefully put two clamps from one side to the other, to secure the components until the glue dries. Check with the square again.
5. Lastly, put glue the top board dado slots and put top board in place. Pre-drill two holes (slightly smaller than the nail size) on each side for the top supports. Put the nails from the back side.



**Finish:**

1. After the glue dries, pre-drill two holes on each side for each shelf. Place the holes carefully so they are about same distance in from each side (about 1 inch in or 2.5 cm). Put the nails in ¾ of the way and then the rest of the way with a **Nail Center Punch**. Drive them down past the surface and putty the holes.
2. Use 220 grit sand paper to sand any rough areas, or any glue. Glue will make your finish look bad.
3. Apply a coat of the stain or clear coat that you prefer. (You can apply a second coat later).
4. Put two eye-hooks at two high points on your back bard (look at the sample).