

Sheet Metal



Skills
Exploration
Days

Sheet Metal

TOOLS & MATERIALS

- combination square
- measuring tape or ruler
- tin snips
- hacksaw
- folding bar
- metal file
- clamps
- drill
- 1/8" drill bit
- rivet tool
- rivets
- sheet metal
- marker
- scrap wood

SAFETY EQUIPMENT

- safety glasses
- gloves

SKILLS TO LEARN

- How to measure, cut, bend, file, and fasten metal

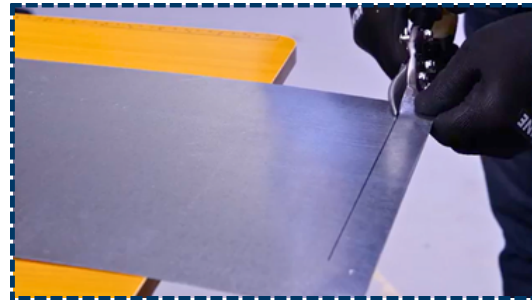
Check out the
instruction
video here!



STEP 1:

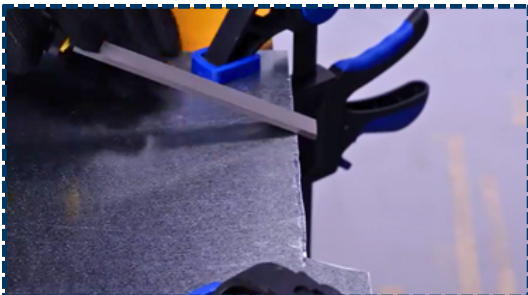


a. Mark a straight line on the sheet metal with a marker, using a combination square or ruler.

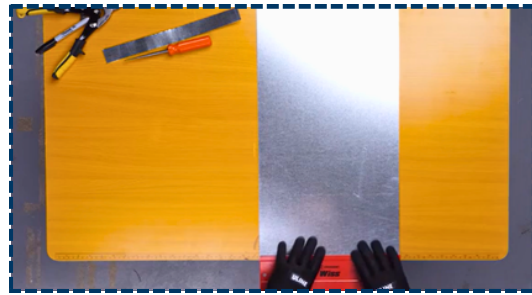


b. Cut along the line with tin snips. To make a clean cut, never fully close the tin snips.

STEP 2:

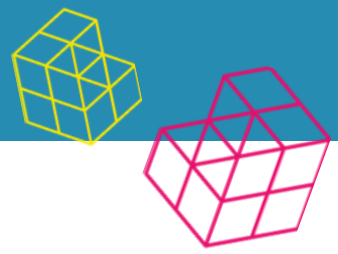


a. File down the rough edges. Make sure to file in one direction at a 30-45 degree angle.



b. Bend the edge of the sheet metal with a folding bar by pushing down with your fingers and leaning it forward. Bend it to a 90 degree angle.





STEP 3:



a. Take a folded piece of metal and clamp it on top of the wood off the edge of the table.



b. Drill a hole into the metal piece using a drill and 1/8" drill bit. Drill in short bursts.

STEP 4:



a. Fasten the metal piece with a 1/8" rivet. It should be a little tight, but will snap in if done correctly.



b. Open the rivet tool and place it on the rivet. Squeeze the rivet tool until you hear a click.

STEP 5:



a. Prepare your hacksaw by loosening the wingnut, rotating the blade, and retightening the wingnut. Clamp the sheet metal to the table.



b. Start a shallow cut by moving the hacksaw in one direction at a 30 degree angle.



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