

## **“Kick Off Your Shoes” - Shoe Rack/Organizer**

### **Materials Needed:**

1. Pine Wood
  - a. 2 – 47” x 8”
  - b. 4 – 18” x 6”
2. 16 Wood Screws
3. Saw
4. Cardboard
5. Pencil
6. Sandpaper
7. Safety glasses

**Grade Level:**  
**4-12**

**Project Time:**  
**2- 3 hours**



### **How this helps Maumee Valley Habitat for Humanity:**

The shoe rack/organizer will be donated to Future Homeowners and/or sold in our ReStore. THANK YOU for making a difference.

### **Instructions:**

1. To create a ladder effect, the shelf needs to lean back. Create a cardboard template to ensure all angles are aligned. To make your template, measure a piece of cardboard 8” long. Then measure 2” high and, using a ruler, draw a line from this point to the corner on the opposite side of the cardboard. Cut along this line and you will be left with a wedge-shaped piece of cardboard.
2. Use the template and line it up against the end of the two 47” pieces of wood with the corners meeting. Draw along this line.



### Instructions:

3. Do the same at the other end of the wood, turning the template so that the thinner end of the wedge is at the opposite corner. Using the saw, cut along both of these lines.
4. Measure along inside of the two 47" sides, marking off every 9" until you have four points. These will be your shelves locations.
5. At each one of these points, line the template up so that the smallest edge is flush with the opposite side of the wood. Mark along the angled edge of the cardboard. This should be parallel with the angle at the end of the plank.
6. Pre-drill 2 holes across each mark of the shelf locations. Then use your drill to screw in two of the wood screws through the pre-drilled holes and into the shelf to hold in place.



7. Repeat this last step screwing each shelf into place along the longer wood. Once one long side is completely done, repeat the previous step to attach the second side of the ladder with screws.

**\*Adapted from:** <http://www.designsponge.com/2015/06/diy-ladder-shelf-shoe-storage.html>