

# STEM Woodworking Project

## January 2016

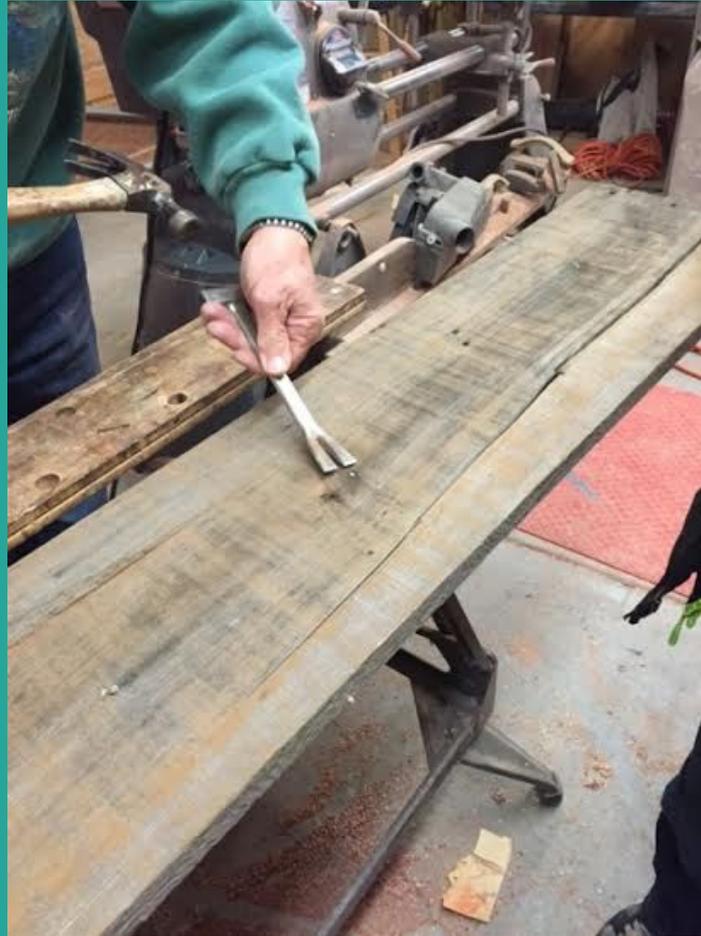
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How to Repurpose Wood

# Remove Nails

Removing nails is an important step in repurposing wood.

Nails or metal left in the wood can cause damage to the tools and is a safety hazard.



# Removing Nails



Sometimes when working with repurposed wood,  
you might find a surprise . . .



Take a guess at what we found.

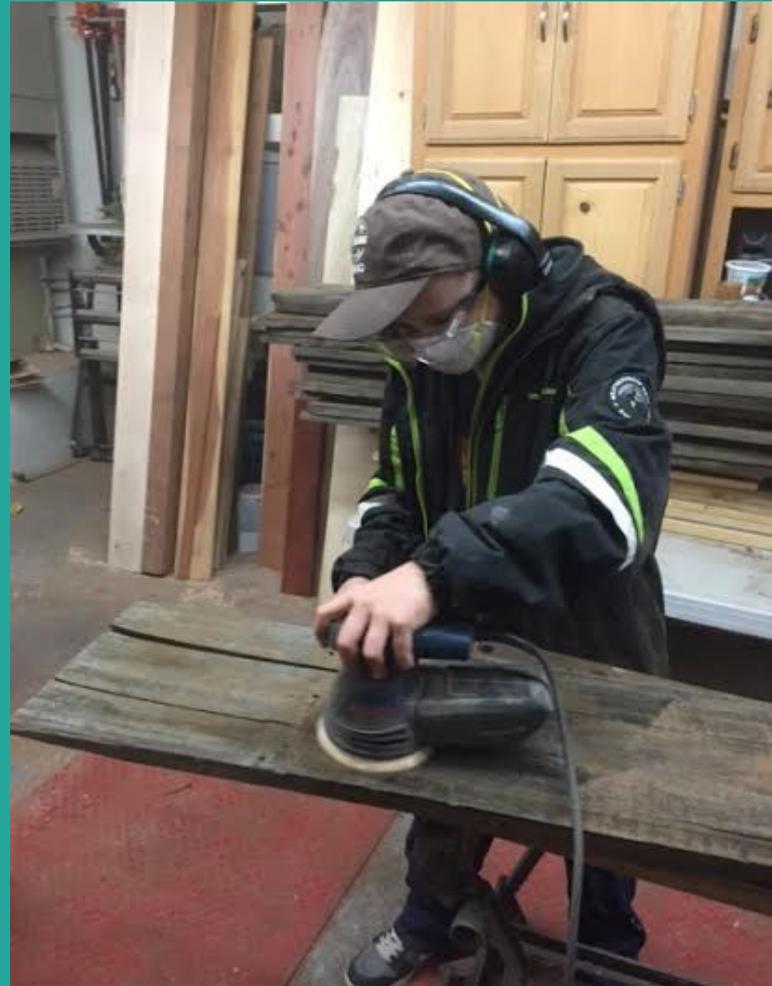
## BB's!

Check for items that could cause damage to equipment or power tools. Not only can metal cause damage to tools, but it also can be a safety hazard.



# Sanding

An important step in any woodworking project is sanding. After the nails and metal had been removed from each board, we ran an orbital sander over the front and back of each board. This was to remove any moss or dirt before using any other tools.



# Chop Saw

Next, we cut off the split or severely damaged parts of each board.





## Table Saw

After the damaged portions were cut off, the boards were cut to width with a table saw. This is called "ripping" the boards.

Running the boards through the planer ...  
Prepare to be amazed!



This is what we started with . . .



A planer is used to remove the surface wood, revealing a clean and smooth surface. The planer makes the boards look like new. The planer is also used to cut all the boards to the same thickness.



**TA-DA!**

# Chop Saw

After the boards went through the planer, we took them back to the chop saw. Here the boards were measured, marked, and then cut.



# Drill Press

once the boards were cut to the correct length, we measured and marked where to drill for the pegs.



Three holes were drilled on each board. one for each peg.



# Router

Routing the edges from a square edge to a rounded edge was the final step in the transformation of these boards.

The rest is up to you!