

# Grade 7 Industrial Arts

## Woodshop Unit

### Birdhouse Project

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RCHS

This year in Grade Seven Industrial Arts we completed a unit on drafting as well as wood and shop safety. In the final half of the year we were in the wood shop. Throughout all of these units the students were using critical thinking when it came to measuring, drawing, lay out, shop safety, cutting and assembly as well as design. While drafting was fairly individualized, the wood shop environment emphasized collaboration while measuring, cutting, drilling and assembly.

The grade seven wood shop unit covered pieces of the following modules from the Practical and Applied Arts curriculum:

- Safety (Core)
- Wood (Core)
- Measuring and Layout (Core)
- Hand Tools (Core)
- Portable Power Tools (Core)
- Stationary Power Tools (Core)
- Fasteners and Adhesives (Core)

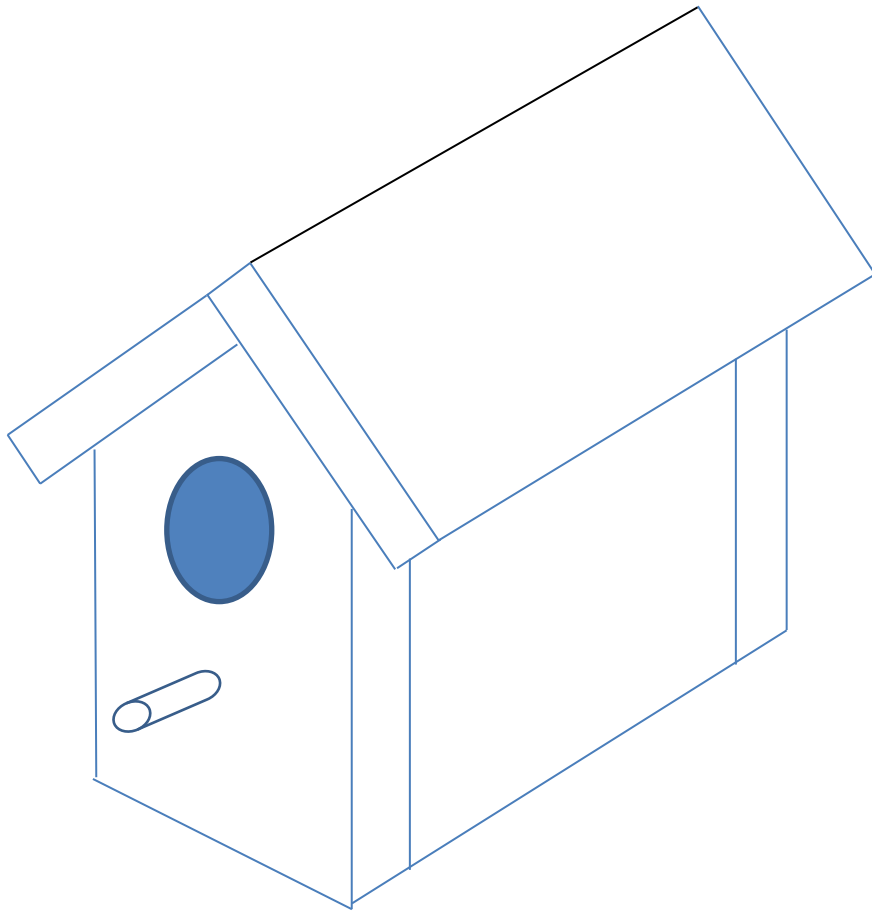




Grade 7 Industrial Arts

Bird House Project

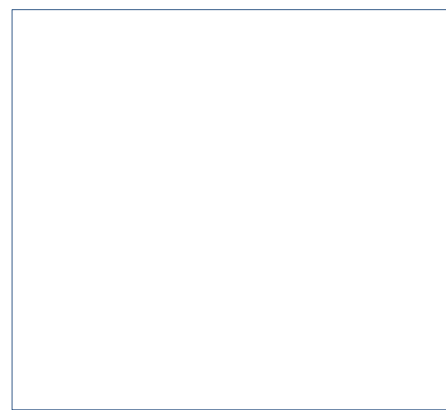
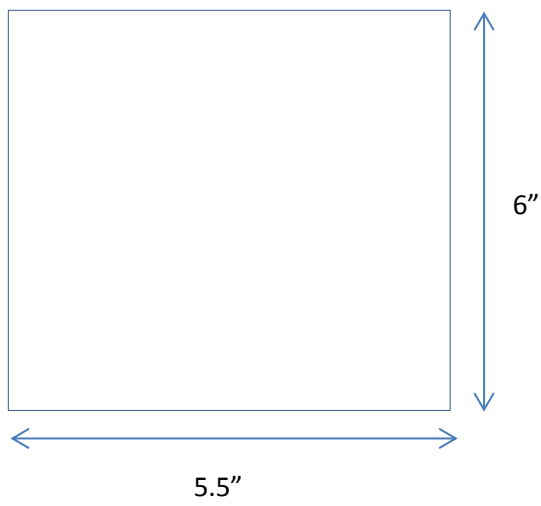
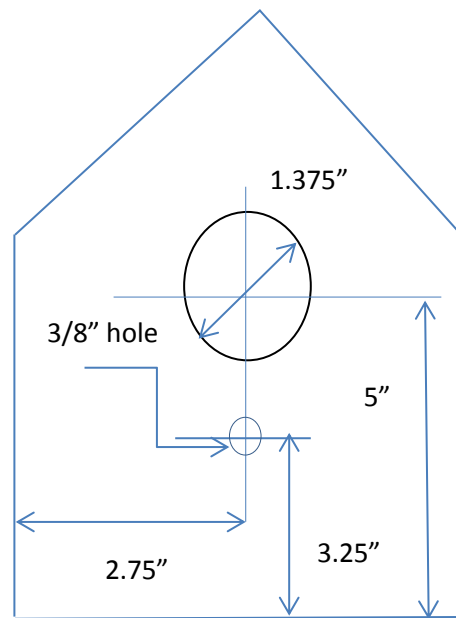
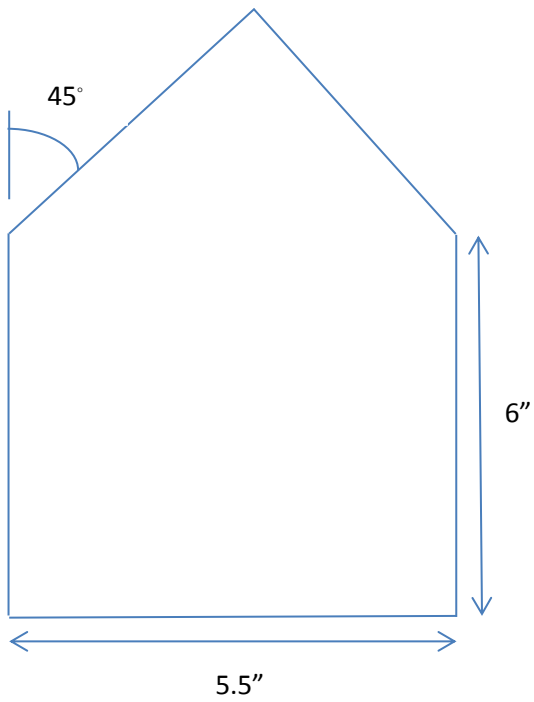
Plans & Instructions

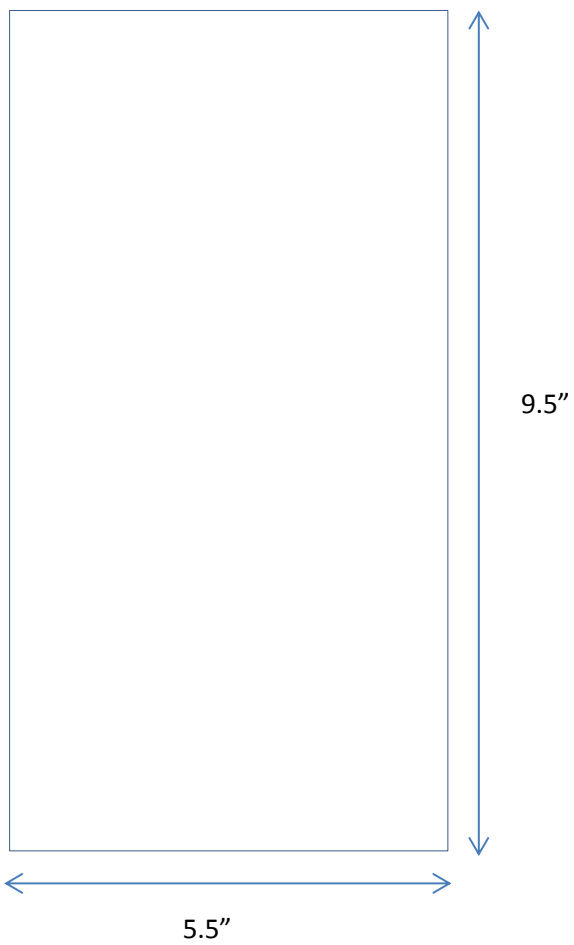


You will need:

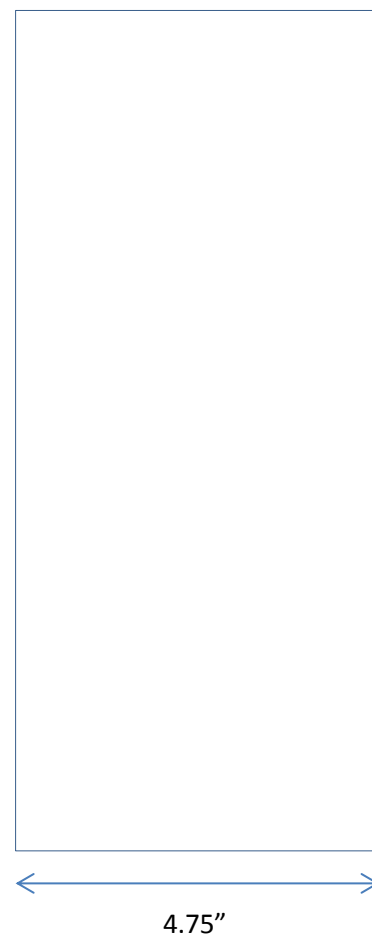
- About 60", or 5 feet, of 1 x 6. A common fence board will suffice.
- About 2 dozen small penny nails.
- Small piece of dowel
- Some wood glue
- Tools: saw, hammer, drill, combination square, pencil and 1/16<sup>th</sup> and 1 3/8<sup>ths</sup> inch drill bits.

1. Cut the front and back pieces
2. Cut the side pieces
3. Drill holes in the front wall where indicated
4. Run a small bit of glue down the edges of the sides
  - a. Make sure the grain all runs up and down
5. Predrill holes in the front pieces and nail the front, sides and back together
  - a. Check the box to make sure it is square, it will make things easier
6. Cut the bottom to fit and install with a little glue and a couple of nails
7. Cut the two roof panels to length
8. Rip a 3/4" strip off one of the panels
9. Glue and nail the wider roof panel to the edge of the narrower one
  - a. Check to see if the roof fits the bird house well, you might have to make adjustments
10. Glue the roof to the birdhouse and nail it on.
11. Cut a 2 inch length of 3/8 inch dowel and glue it into the hole in the front
12. The bird house should now be ready to paint

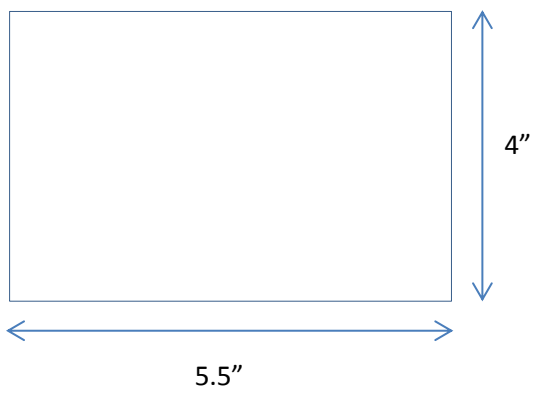




Left side roof panel



Right side roof panel



Floor

