

# A Closer Look

Wood Science

YANR-7b

ALABAMA COOPERATIVE EXTENSION SYSTEM, ALABAMA A&M AND AUBURN UNIVERSITIES

## 4-H Woodworking Exhibit Plan

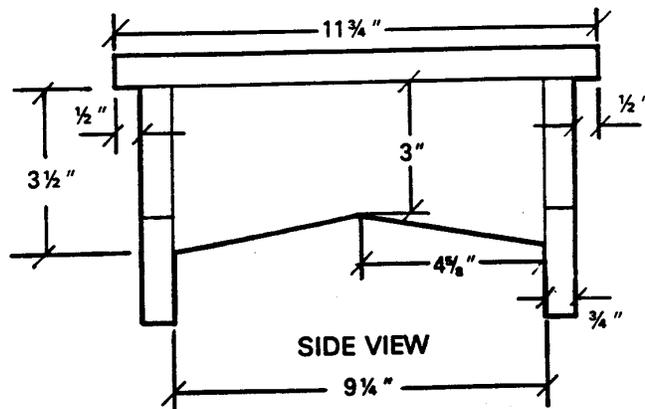
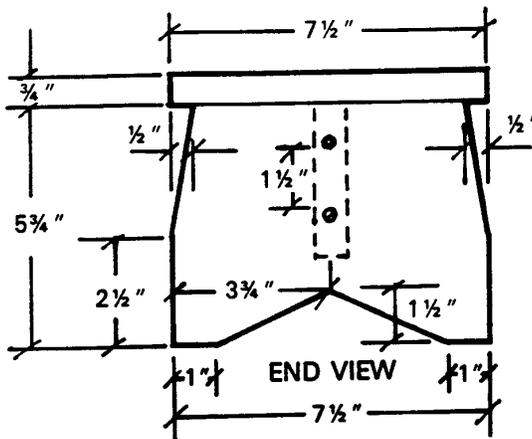
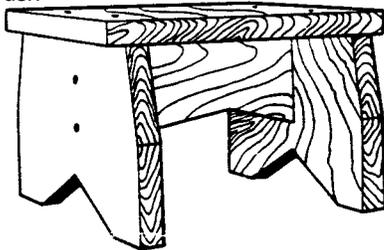
### A Foot Stool

#### Materials Needed

One piece 1" x 8" x 24" dressed softwood for top and legs (actual dimensions about  $\frac{3}{4}$ " x  $7\frac{1}{2}$ " x 24")  
 One piece 1" x 4" x 10" dressed softwood for stretcher (actual dimensions about  $\frac{3}{4}$ " x  $3\frac{1}{2}$ " x 10")  
 Eight  $1\frac{1}{2}$ " flathead wood screws  
 Sandpaper  
 Stain and varnish for finishing

#### Tools Needed

Pencil                      Ruler                      Handsaw  
 Coping or Jigsaw      Drill                        Screwdriver  
 Small paintbrush



#### How to Make the Foot Stool

1. From the piece of 1" x 8", cut one piece  $11\frac{3}{4}$ " long for the top. Cut the remaining piece into two  $5\frac{3}{4}$ " pieces for legs.
2. Trim the 1" x 4" down to  $9\frac{1}{4}$ " for the stretcher.
3. With a pencil, mark the position for the screws on the legs. The marks should be half the distance between each edge.
4. Carefully follow the measurements shown on the end view to measure and mark the sides and bottoms of the legs. Use a straight edge to draw the cutting lines. Cut with a jigsaw or coping saw.
5. Use the measurements shown in the side view to measure and mark the stretcher. Use a jigsaw or coping saw to make the cuts.
6. Drill holes at the points marked for the screws on the legs. Mark these positions and drill holes for screws in the ends of the stretcher. Be sure to center the holes in the stretcher ends so the wood won't split. Attach the stretcher to the legs with wood screws.
7. Mark and drill four holes to attach the top to the legs. Be sure to center the holes in the top edge of the legs so the wood won't split. Attach the top with wood screws.
8. Sand the surfaces and edges.
9. Apply stain and varnish (no paint).

