

Project

Cruiser Skateboard

Tools Used

Scroll Saw



Jig Saw



Band Saw



Table Saw



Pipe Clamp



Chisel



Thickness Planer



Router



Combination Square



Hand Drill



Palm Sander



Belt/Disc Sander

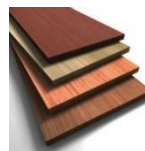


Grip Clamp



Materials Needed

Various Hardwoods



1/4" Plywood



Wood Glue



Sand Paper



Truck Template



Counter Sink
Drill Bit



15/64 Drill Bit



Round-over
router bit



Polyurethane

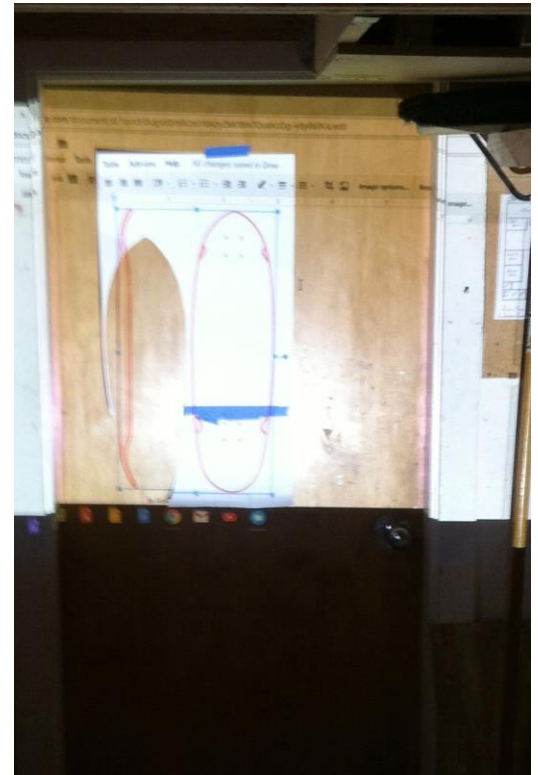


Foam Brush



Step One:

Create template or choose from other designs. Trace onto 1/4" plywood and cut out shape using scroll saw or jig saw.



Using projector to create template

Tools Used

Scroll Saw



Jig Saw



Materials Used

1/4" Plywood or paper

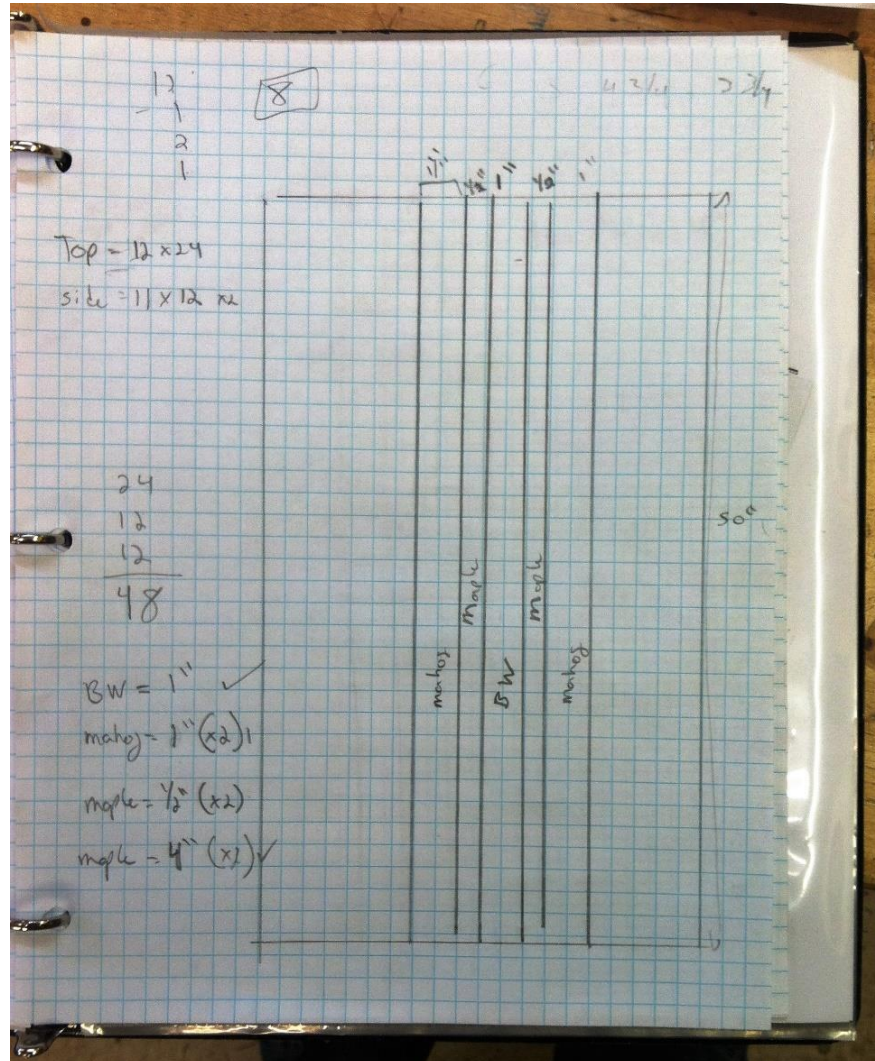


Check Box When Completed



Step Two:

Create a plan which shows the different types of woods used and the thickness of each piece.



Tools Used

Materials Used

Check Box When Completed



Step Three:

Use the table saw to cut out various pieces of $\frac{3}{4}$ " hardwoods to the desired widths.



Tools Used

Table Saw



Materials Used

Various Hardwoods



Check Box When
Completed



Step Four:

After pieces are cut to width, apply wood glue and clamp together using pipe clamps. Let dry for at least 3 hours.



Tools Used

Pipe Clamp



Material Used

Wood Glue

Various Hardwoods

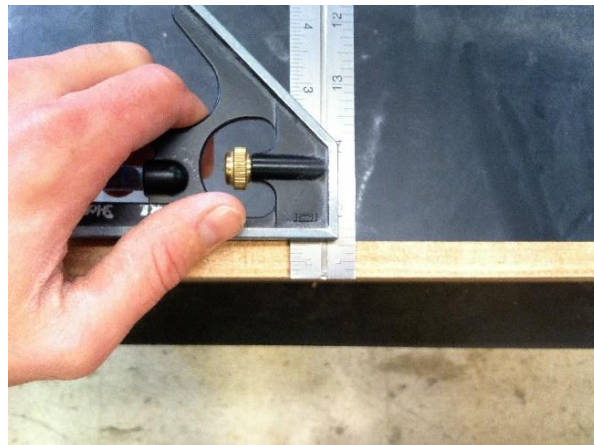


Check Box When Completed



Step Five:

After pieces are glued, scrape off glue with chisel and put piece through thickness planer to get desired thickness. (no less than ½")



Tools Used

Chisel



Thickness Planer



Material Used

Check Box When Completed



Step Six:

Square up one end of the board with the chop saw.



Tools Used

Chop Saw



Material Used

Check Box When
Completed



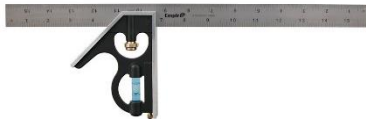
Step Seven:

Find the center of the board using the combination square. Draw a line from end to end.



Tools Used

Combination Square



Material Used

Check Box When Completed



Step Eight:

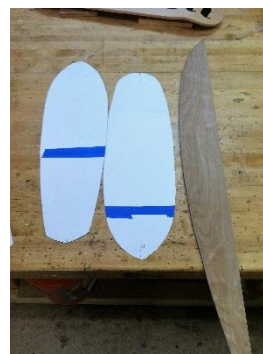
Align the template on the centerline and trace one side. Flip and trace to complete the full drawing.



Tools Used

Material Used

Template

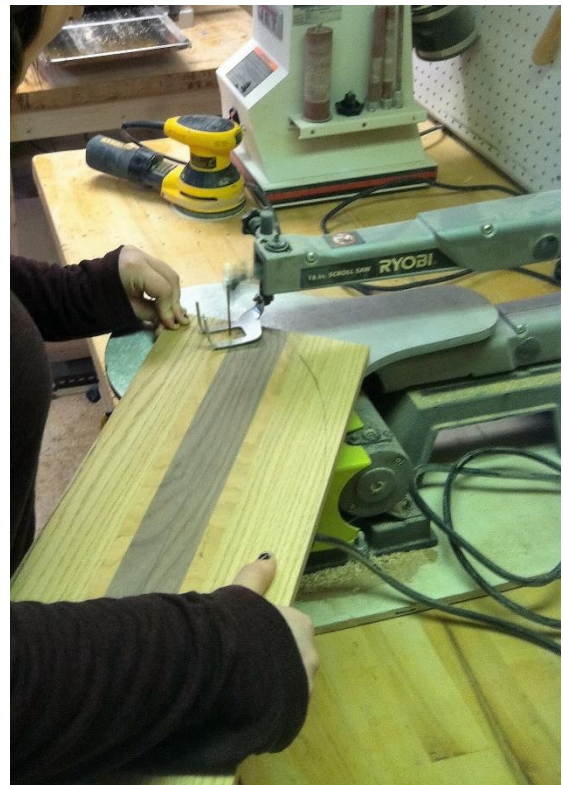


Check Box When Completed



Step Nine:

Using the band saw, scroll saw, or jig saw cut out the skateboard outline.



Tools Used

Scroll Saw



Jig Saw



Band Saw



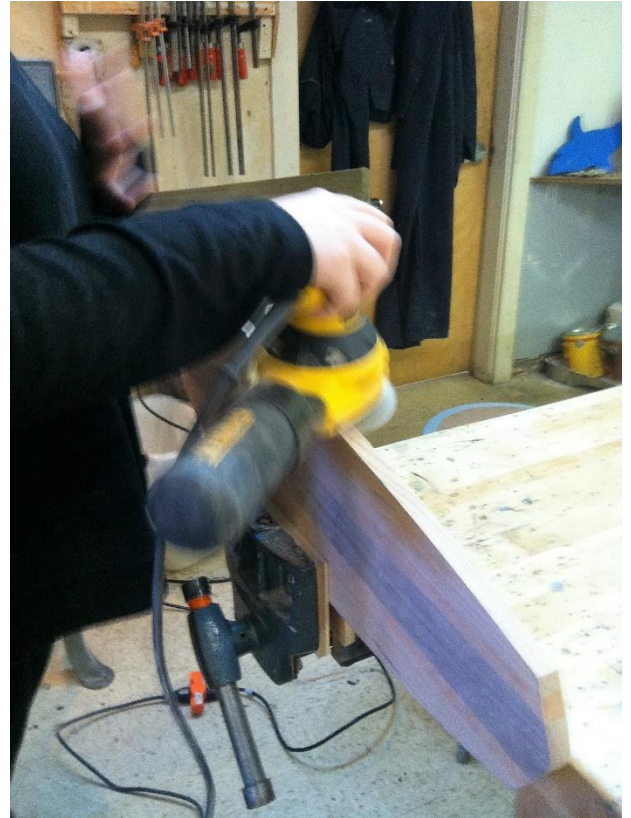
Materials Used

Check Box When Completed



Step Ten:

Use the belt/disc sander to sand the edges of the board. Finish sanding with the palm sander. Use sand paper grit 80, 120, 220.



Tools Used

Belt/Disc Sander



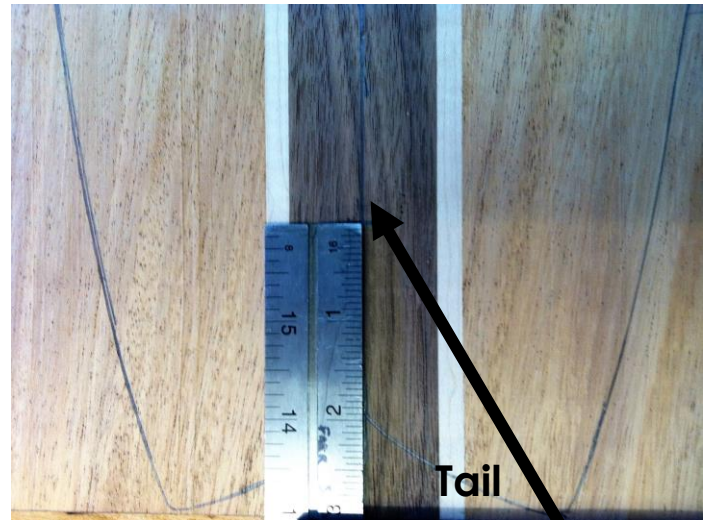
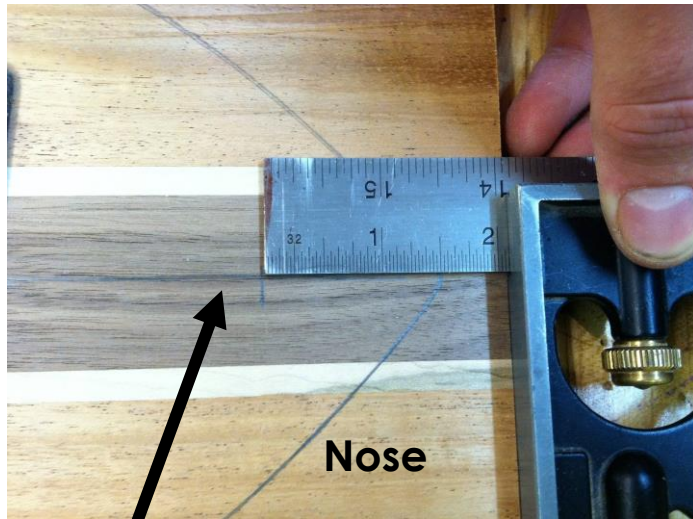
Palm Sander



Materials Used

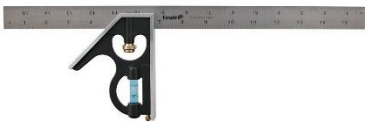
Step Eleven :

Make markings for the truck holes. Where you place the trucks will vary depending on the design but will always be referenced off the centerline



Tools Used

Combination Square



Material Used

Check Box When Completed



Step Twelve:

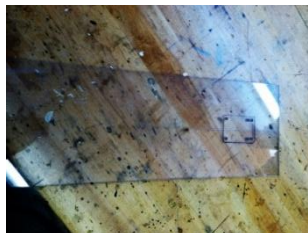
Use the plexiglass truck hole template to drill holes for the trucks. Align centerline on skateboard with the centerline of the template.



Tools Used

Material Used

Truck Template



Check Box When
Completed



Step Thirteen:

With a scrap piece underneath the skateboard, clamp the truck hole template to the board and drill the four holes. Do the same for the nose and tail.



Tools Used

Hand Drill



Grip Clamp

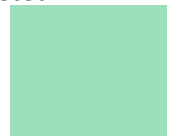


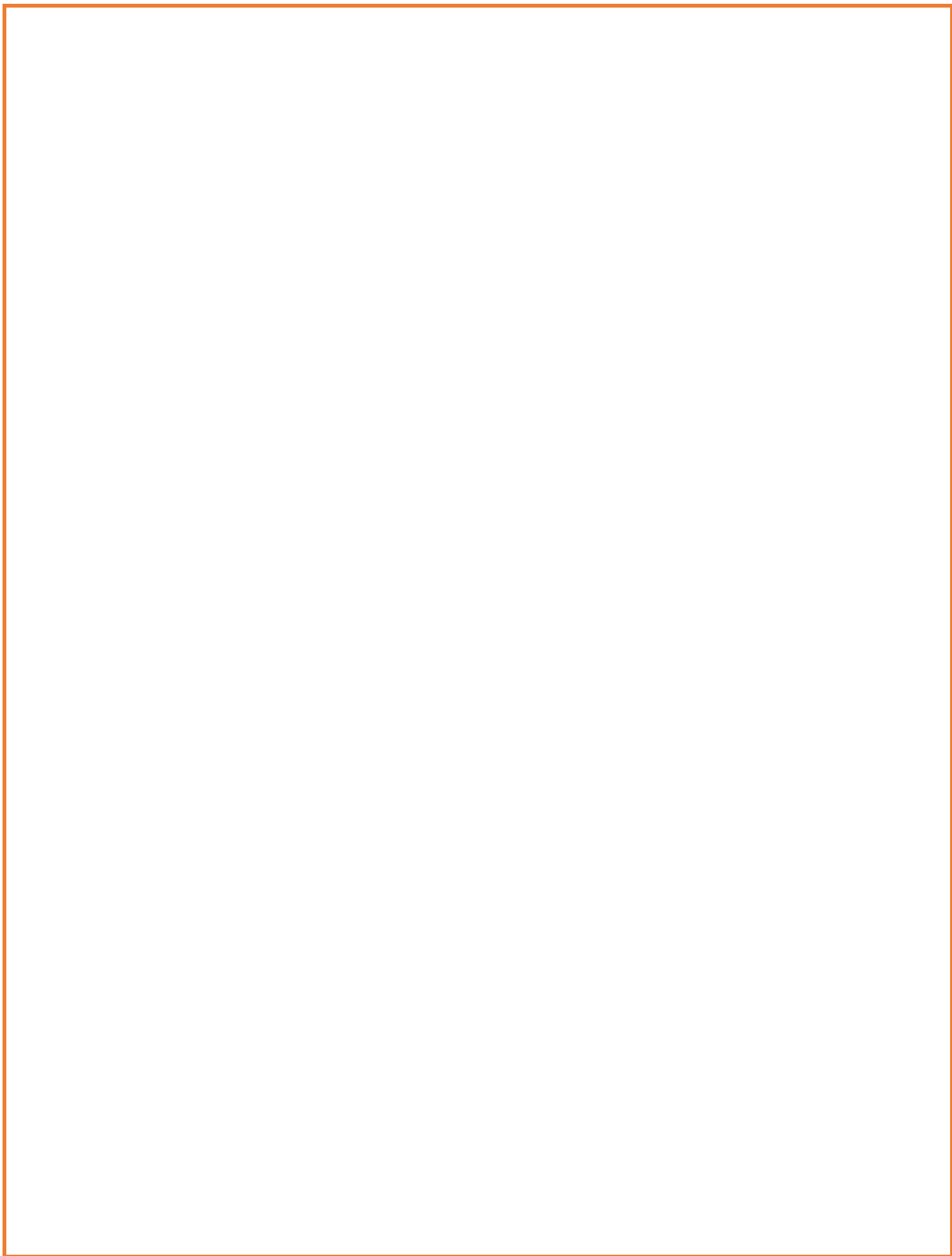
Material Used

15/64" Drill Bit



Check Box When Completed





Step Fourteen:

Use the power drill and counter sink drill bit to make counter sink holes. This allows for the bolts to sit flush with the skateboard deck.

make sure not to countersink too deep



Tools Used

Hand Drill



Material Used

Counter Sink Drill Bit



Check Box When
Completed



Step Fifteen:

Round over the edges of the board with a medium round over bit and the hand router.



Tools Used

Router

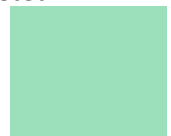


Material Used

Round-over router bit



Check Box When Completed



Step Sixteen:

Sand all sides of the skateboard starting with 80, 120 and finish with 220 grit.



Tools Used

Palm Sander



Material Used

Sand Paper

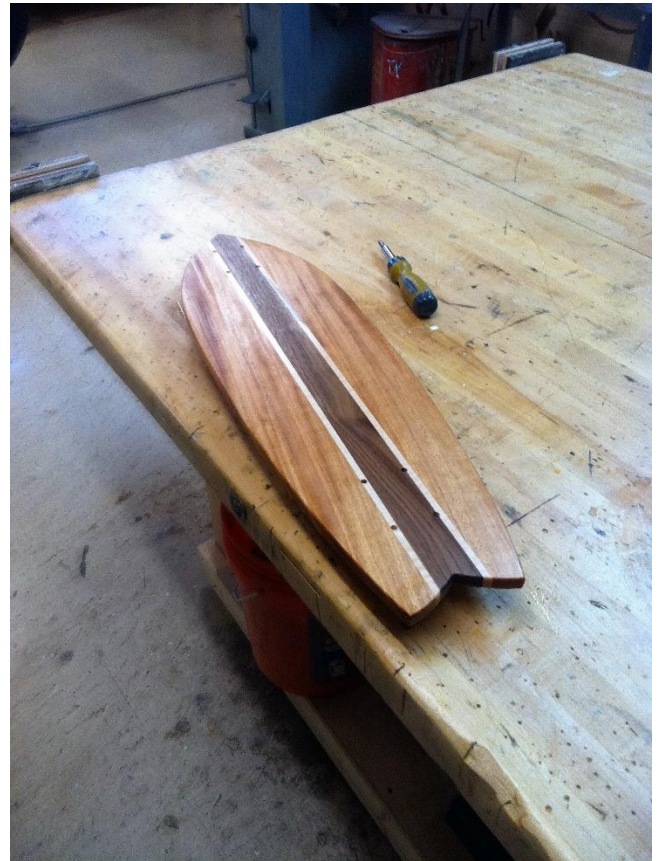


Check Box When Completed



Step Seventeen:

Apply three coats of polyurethane wood finish to all sides of the skateboard. Each coat needs 24 hours of drying time. Hand sand very lightly with 220 grit between each coat.



Tools Used

Foam Brush



Material Used

Polyurethane



Check Box When Completed



Step Eighteen:

Install the trucks, wheels and apply the grip tape. Skate safely!



Curriculum Standards

2.C.03 **Demonstrate methods of measurement.**

2.C.03.01 Read a ruler in sixteenths of an inch.

2.C.03.02 Identify and use layout, measuring, and checking devices.

2.D **Hand Tools**

D.01 Demonstrate safe use of hand tools.

2.F **Hand Sanding**

2.F.01 Identify and demonstrate hand sanding equipment and procedures.

2.G **Gluing and Clamping**

2.G.01 Describe and apply adhesives and demonstrate clamping procedures.

2.H **Stationary Power Equipment**

2.H.02 Operate a planer.

2.H.02.01 Plane stock to specified thickness.

2.H.02.02 Square stock using a planer.

2.H.03 Operate a band saw.

2.H.05 Set up and operate a drill press.

2.H.05.01 Drill hole to given depth.

2.H.05.02 Drill multiple holes using stops.

2.H.05.03 Drill holes using jigs and fixtures.

2.H.09 Set up and operate different types of sanders.

2.I **Portable Power Tools**

2.I.01 Demonstrate the ability to use a pistol drill.

2.I.01.01 Identify correct drill bit.

2.I.01.02 Drill holes to given dimension.

2.I.03 Demonstrate the ability to use an electric router.