END TABLE PROCEDURE

Name: _____

Leg Procedure

1) Break out stock for the legs (Rough sizes)

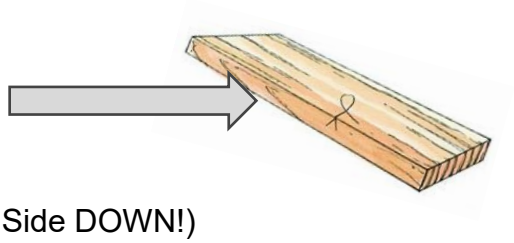
   Square legs _____ pieces _____ thick, by _____ wide, by _____ long

2) Cut to rough length on mitre saw of _____ long

3) Rip to rough width on table saw of _____ wide and _____ wide

4) I should now have _____ pieces that are _____ wide by _____ long
   - write your name on the end of each piece in **pen**

5) Joint a **Face Side AND face Edge** on all the pieces - mark them



6) Plane all pieces to _____ thickness (Face Side DOWN!)

7) Rip to final width of _____

8) Cut one end square using the mitre saw

9) Cut to final length of _____ long using the mitre saw

10) If tapering the legs, get the taper jig and setup the angle of _____ degrees. Run the legs through the Table Saw making sure you secure the pieces in the jig well.

Rail Procedure

1) Break out stock (Rough size)

SQUARE TABLE ____ pieces _____ thick, by _____ wide by _____ long

OR

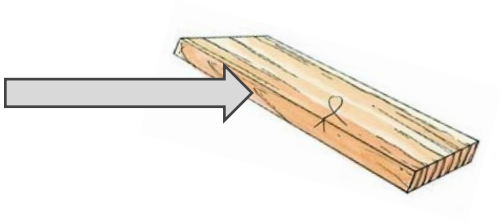
RECTANGLE ____ pieces _____ thick, by _____ wide by _____ long
____ pieces _____ thick, by _____ wide by _____ long

2) Cut to rough length on mitre saw ____pce(s) at _____ long and ____pce(s) at ___ long

3) Rip to rough width on table saw of _____ wide

4) I should now have _____ pieces that are _____ wide by _____ long and. _____ pieces that are _____ wide by _____ long
- write your name on the end of each piece in **pen**

5) Joint face side and face edge on all pieces and mark them



6) Plane all pieces to _____ thickness.

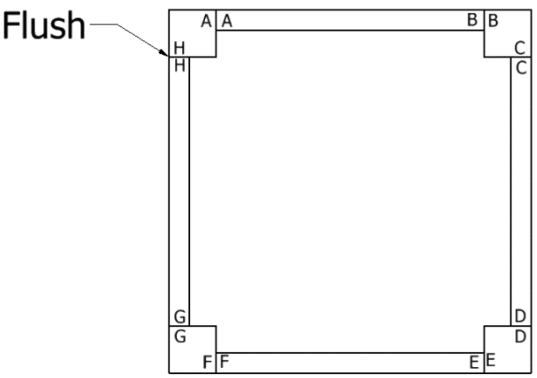
7) Rip to final width of _____ wide.

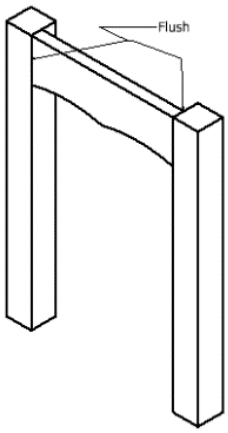
8) Cut one end square using the mitre saw

9) Cut to final length of _____ long and _____ long using the mitre saw

Dowel pin layout

1) Set your table upside down with the rails and legs in position. Hide any defects or cracks by putting the poor sides of the legs and rails to the inside. Get a web clamp and tighten it up around the table. Flip the table right side up.
   - label the legs and rails from the top as shown in the diagram (A-H)line up the top edges on all the legs and rails
   - line up the rails flush to the outside on the legs

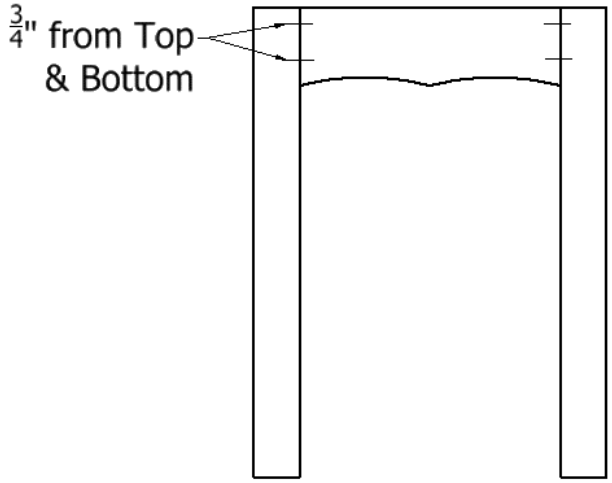




2) With the tables clamped, measure

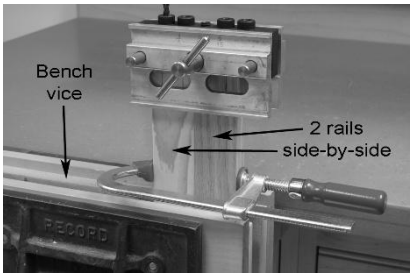
- down from the top of the rails 3/4" or 20mm on the outside all the way around the table, placing a pencil mark across the legs and rail

- up 3/4" or 20mm from the bottom of the rail all the way around the table - place a pencil mark across the legs and rail



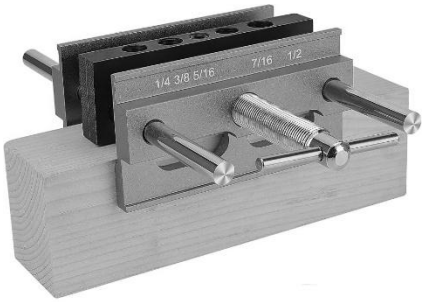
HAVE THE TEACHER CHECK IT!!

3) Get a dowel jig from the teacher and set it up to drill the holes in all the rails



4) Clamp it to the end of your rail (use a second rail to support it as shown in the image
   - Carefully line it up with the pencil marks you made!!

5) Drill the hole in ALL the rails moving the drill up and down to prevent the drill bit from clogging



6) Drill the holes in the legs.

7) Clamp it to the side of your leg
   - Carefully line it up with the pencil marks you made!!

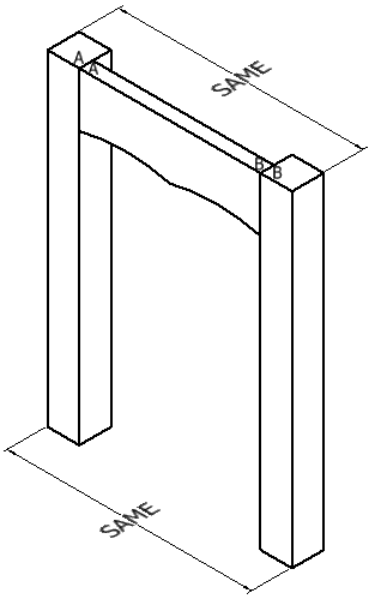
8) Drill the hole
   - move the drill up and down to prevent the drill bit from clogging
   - repeat for the remaining legs

13) Router the legs if necessary

14) Sand the legs and rails with 80, 120, 180 and 220 grits before you assemble
   - it easier now then later

Table Leg/Rail Assembly Procedure

1) Get 8 dowel pins from the teacher



- apply glue to the dowel pins one at a time and insert them into the rails labeled A/B. Then apply glue to the holes in the legs labeled A/B.

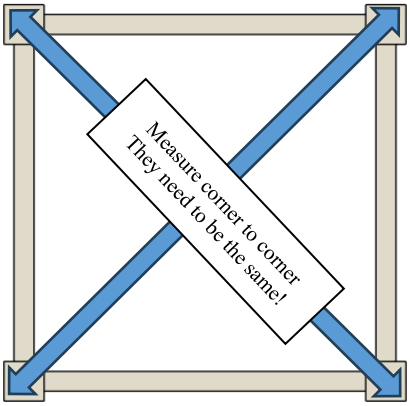
- match up the labeling on two legs and a rail and connect the two together

- clamp the legs and rail together with one or two bar clamps

- Make sure the legs are parallel as Shown

- REPEAT for Rails E/F and again make sure the legs are parallel as Shown

2) When the two sets of legs/rail (A/B and E/F) have dried get another 8 dowel pins and glue the remaining two rails (C/D and G/H) in place.
   - Make sure the table is SQUARE



3) Tidy up any badly aligned joints on the TOP of the legs/rails with a hand plane

Solid Top Procedure

1) Break out stock for the top (Rough sizes)
   _____ pieces _____ thick by _____ wide by _____ long

2) Cut to rough length on mitre saw of _____ long

3) Rip to rough width on the table saw of _____ wide

4) I should now have _____ pieces that are _____ wide by _____ long.

5) Joint a face side and face edge on all of the pieces - mark them.

6) Rip to final width of _____ wide plus 1/16” (1mm)

7) Re-joint the table-sawn edge ONCE

8) Glue the pieces together in two sections as illustrated
   - make sure the face side is down and FLUSH when gluing





9) Scrap off the glue

10) Re-joint a face side if possible – only if they sections are less than 8”

11) Plane to thickness of _____

12) Glue the two top pieces together
   - make sure they are even.

13) Cut one end square on the table saw

14) Cut to final length of _____ on the table saw

15) Sand to 220 grit

4 Piece Top Procedure

1) Break out stock for the top (Rough sizes)

Square 4 pieces _____ thick by _____ wide by _____ long

OR

Rectangle 2 pieces _____ thick by _____ wide by _____ long and
2 pieces _____ thick by _____ wide by _____ long

2) Cut to rough length on mitre saw of _____ long and _____ long

3) Rip to rough width on table saw of _____ wide

4) I should now have _____ pieces that are _____ wide by _____ long and _____ pieces that are _____ wide by _____ long

5) Joint a face side and face edge on all of the pieces - mark them.

6) Plane all pieces to ¾” thickness

7) Rip to final width of _____ wide

8) Cut one end on a 45^0 angle of all 4 pieces

9) Cut to final length on a 45^0 angle of _____ and _____ long

10) Using the router cut the rabbit for your wood, glass, etc. to fit into.

My rabbit is _____ wide by _____ deep.

11) Biscuit joint the ends of all 4 pieces.

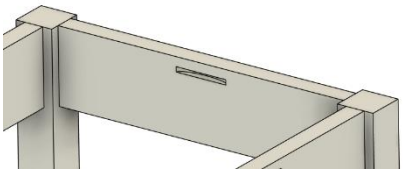
12) Glue top together using a web clamp making sure the top is flat
- insert biscuits into the slots

13) Sand to 80 grit

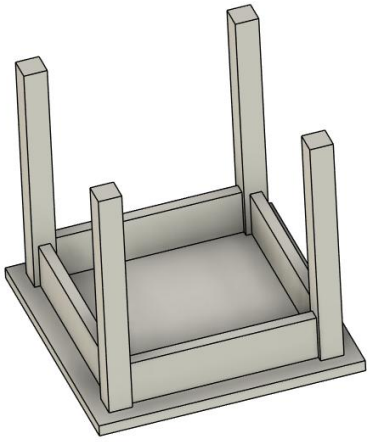
14) Router the outside edge of the top

14) Sand to 220 grit

Final Assembly Procedure



1) Using the Biscuit Joiner **THAT IS SETUP** for Tabletop Mounting Clamps (3/8" from the plate to the top of the cutting head), plunge into the inside of each rail once or twice using the #20 Biscuit setting.



2) Place TOP (good side down) on the workbench. Make sure the workbench is free of anything that could scratch the top.

3) Place bottom part (leg/rails) onto the top and centre it from all 4 sides with a ruler or tape measure.

4) Insert the Timetable Tabletop Mounting Clamps into each slot. Then using a #8 – 5/8" or 3/4"round head screw to secure the table top to the rails.

5) Confirm everything is well sanded and that there are NO scratches in the project.

6) Apply the finish to your project 3 times (once per day) and sand lightly between coats with 400 grit sandpaper.

7) Complete an evaluation sheet and submit for marking (include your Drawing).