# END TABLE PROCEDURE

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Leg Procedure**

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

 **Square legs** \_\_\_\_\_ pieces \_\_\_\_\_ thick, by \_\_\_\_\_\_\_\_ wide, by \_\_\_\_\_\_\_ long

 OR

 **L-shaped** \_\_\_\_\_ pieces \_\_\_\_\_ thick, by \_\_\_\_\_\_\_\_ wide, by \_\_\_\_\_\_\_ long

 \_\_\_\_\_ 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

 and \_\_\_\_\_\_\_\_\_\_\_ that are \_\_\_\_\_\_\_\_\_\_\_\_ wide by \_\_\_\_\_\_\_\_\_\_\_\_\_ long.

 - write your name on the end of each piece in **pen**

5) Joint a face size on all the pieces - mark them

6) Joint a face edge on all the pieces - mark them

7) Plane all pieces to \_\_\_\_\_\_\_\_\_ thickness

8) **450 L-SHAPED LEGS ONLY** - Rip to final width of \_\_\_\_\_\_\_\_\_ wide

 **NON** **450 L-SHAPED LEGS** - Rip to final width of \_\_\_\_\_\_\_\_\_ wide and \_\_\_\_\_\_\_\_\_ wide

9) **L-shaped legs ONLY or if gluing to make square legs** Glue and clamp each leg

 - 3 bar clamps or C-clamps if gluing square, or L-shape legs

 - 3 web clamps if gluing 450 L-shape legs. Glue two at a time

10) Scrape off excess glue

 - use a chisel

11) **SQUARE LEGS ONLY** - Joint one edge only on all 4 pieces and mark it.

 - make sure the face side is against the fence

12) **SQUARE LEGS ONLY** - Plane to thickness of \_\_\_\_\_\_\_\_ thick

 - the legs should now be \_\_\_\_\_\_\_\_\_\_ by \_\_\_\_\_\_\_\_\_\_ thick

13) Cut one end square using the mitre saw

14) Cut to final length of \_\_\_\_\_\_\_\_\_\_\_\_\_ long using the mitre saw

**Rail Procedure**

1) Break out stock (Rough size)

 **SQUARE TABLE** 4 pieces \_\_\_\_\_\_\_ thick, by \_\_\_\_\_\_ wide by \_\_\_\_\_\_\_\_\_ long

 OR

 **RECTANGLE** 2 pieces \_\_\_\_\_ thick, by \_\_\_\_\_\_ wide by \_\_\_\_\_\_\_\_\_ long

 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

 - 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 ¾” 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.

1. label the legs and rails from the top as shown in the diagram (A-H)
2. line up the top edges on all the legs and rails
3. 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

Place a pencil mark across the legs and rail

3) Measure 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

1. ***HAVE THE TEACHER CHECK IT***

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

6) Clamp it to the end of your rail

 - line it up with the pencil marks you made in step 2 and 3

7) Drill the hole - move the drill up and down to prevent the drill bit from clogging

8) Repeat steps 6 - 7 for the remaining holes

9) Drill the holes in the legs.

10) Clamp it to the side of your leg

 - line it up with the pencil marks you made in step 2 and 3

11) ***HAVE THE TEACHER CHECK IT BEFORE YOU DRILL***

12) Drill the hole

 - move the drill up and down to prevent the drill bit from clogging

 - repeat for the remaining legs

1. Router the legs and/or rails 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 and E/F. Then apply glue to the holes in the legs labeled A/B and E/F.

- 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 follows

1. 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.

3) Tidy up any badly aligned joints with a hand plane

**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

Rip to final width of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ wide

1. Cut one end on a 450 angle of all 4 pieces
2. Cut to final length on a 450 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

1. insert biscuits into the slots

13) Sand to 80 grit

14) Router the outside edge of the top

15) Sand to 220 grit

**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

1. Glue the pieces together in two sections as illustrated
2. make sure the face side is down and FLUSH when gluing



1. 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.

1. Cut one end square on the table saw
2. Cut to final length of \_\_\_\_\_\_\_\_\_\_ on the table saw
3. Sand to 220 grit

**Final Assembly Procedure**

1. Place TOP (good side down) on the workbench. Make sure the workbench is free of anything that could scratch the top.
2. Place bottom part (leg/rails) onto the top and centre it from all 4 sides.
3. Insert #8 - 1 ¼” screws through cleats and screw pieces together.

4) Stain project 3 times, then satin wax 1 coat.