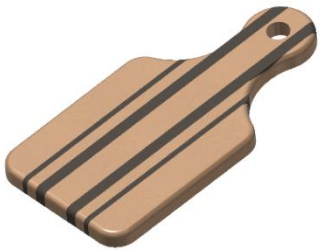
Student Designed Laminated Project

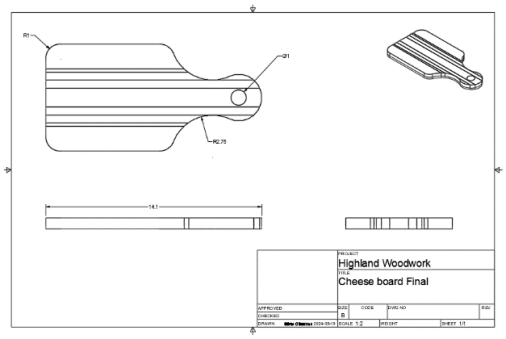
Name: _____

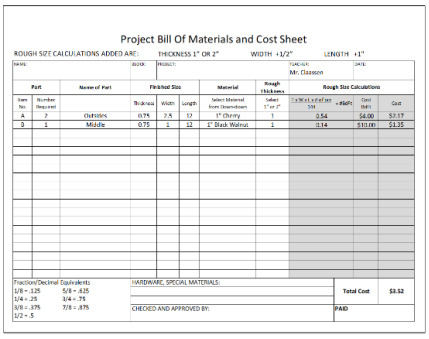
1. Design your laminated project in Fusion. Follow the video tutorials on how to draw it in 3D and produce a 2D working drawing that you will use. You **MUST** have a minimum of 3 pieces of wood. Each piece must me miniumum of 12" long and no wider that 3"



2. Complete a Bill of Materials as shown by your teacher and/or following the video tutorial.

3. Have both your drawing and the Bill of Materials approved by the teacher by having it initialled.
DO NOT loose the drawing as it is part of your mark and it is used for referring to while you make your project.





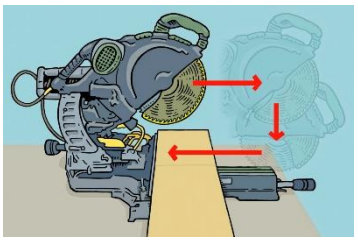
4. Add the **FINISHED & ROUGH SIZES** of each piece of wood in the Table below

Thickness: must be close to 1 inch **Width: oversize by ½ inch** **Length: oversize by 1 inches**

Item	Qty	Name	Material	FINISHED SIZE (thick x width x length)	ROUGH SIZE (thick x width x length)

5. Go to the short ends bin/boxes **FIRST** and select your wood if possible. Only after you **CANNOT** find a piece of wood in the short ends bin/box and you have **ASKED** the teacher, can you take from the main wood pile.

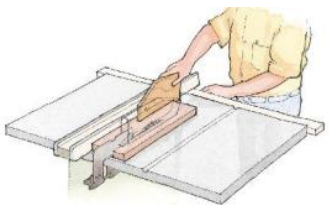
6. Layout the size of wood you require on the wood you have chosen and have the teacher check it. **ONLY** after the teacher has checked it do you proceed.



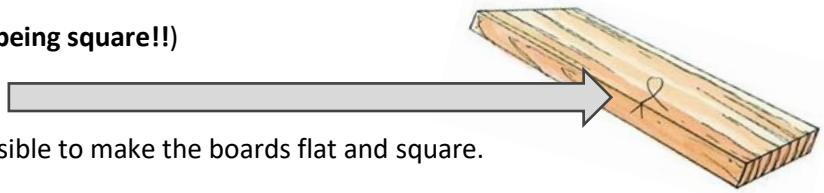
7. Using the **YELLOW** Mitre Saw, cut to **ROUGH LENGTH** the pieces you need.
REMEMBER – your rough length is ½" to 1" longer than your final length!!

Rough Length is: _____

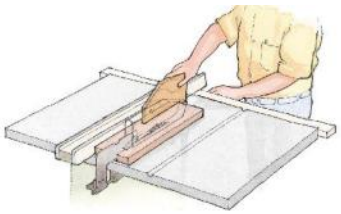
8. If necessary, go to the table saw and rip any extra wood and return it to the short ends bin. **(Do this if the board is more than 1" wider than you need)**



9. On all pieces, use the jointer (**check for it being square!!**)
   - Joint a **FACE SIDE** only (and mark it)
   - Joint a **FACE EDGE** only (and mark it)
   - Go over the wood as few times as possible to make the boards flat and square.

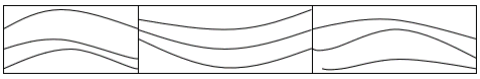


10. Rip ALL pieces on the Table Saw to final width(s).



Item	Qty	Final width of pieces

11. Dry clamp the pieces together (Look at the diagram below for gluing correctly)
    - Clamp **ALL face sides** on the same side and as even as possible.
    - If there are any gaps between the pieces, go back to the jointer.
    - Have it checked by the teacher **BEFORE** gluing.



12. Glue the project together (Use damp paper towel to remove excess glue)
    - If it will contact water, use the waterproof glue!
    - Make sure your name is on it and the time you glued it (Your project may be unclamped and moved!)

13. After it has dried (next class), if any glue remains use a scrapper and/or chisel to remove it.
    - clamp the project to bench.
    - If using a chisel, push it **AWAY FROM YOU** with your hands behind the blade!!

14. Plane to thickness (If it is **NOT FLAT**, see the instructor to use a backing board and tape/shims to ensure it does not "rock" before making one side smooth/flat)
    - put the **face side down first** and plane the opposite side smooth.
    - flip the board over and plane the face side smooth.
    - try and keep the board as thick as possible.

15. Using the **Crosscut Table saw** or **BLUE Mitre saw**, cut one end square and mark it. Then, cut to final length.
    Final Length is: _____

16. Re-create the shape of your cutting board by cutting it out one of the following ways;
    - go back to your computer and proceed to setup the CNC router to cut the shape out.
    - use the Band Saw to cut the corners round then Belt Sand

17. Do any other operations such as drilling holes or routing the edges.

18. Sand your project starting with 80. Continue with 120, 180 and 220 grits. Don't forget the end grain!

19. Apply a finish.
    - 2 coats of mineral oil if the project is to be used as a cutting board (1 per day). Sand with 400 while the mineral oil is applied. Let sit 5-10 minutes, then wipe off excess oil with a clean, dry rag.
    - 3 coats of water-based stain with a brush (1 coat per day). Sand with 400 in between coats.

20. Complete the "Laminated Project Assessment" sheet yourself, then submit it for marking (include you Drawing & Bill of Materials).