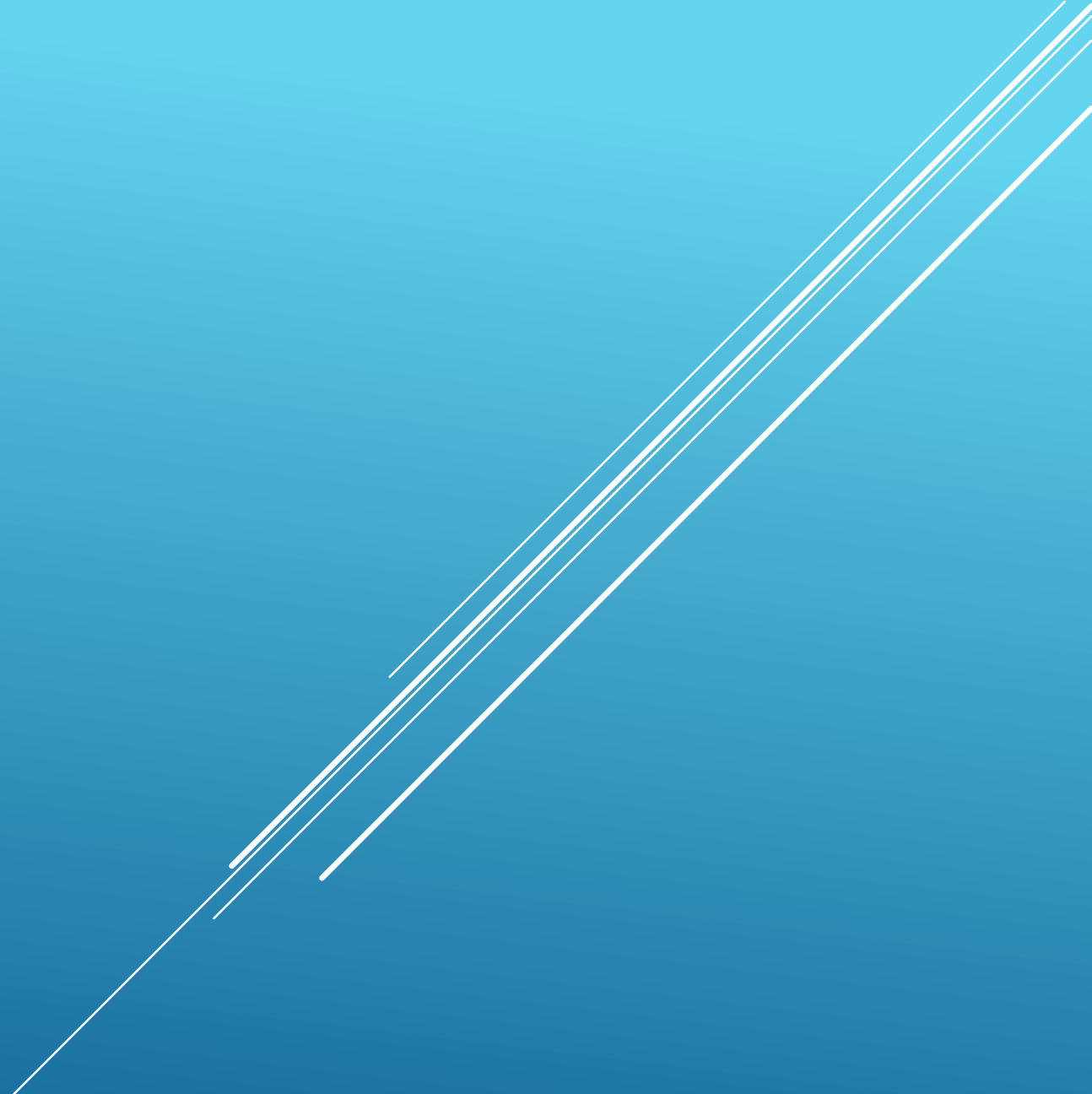


# HOW TO BUILD A LONGBOARD

By Mr. Neat



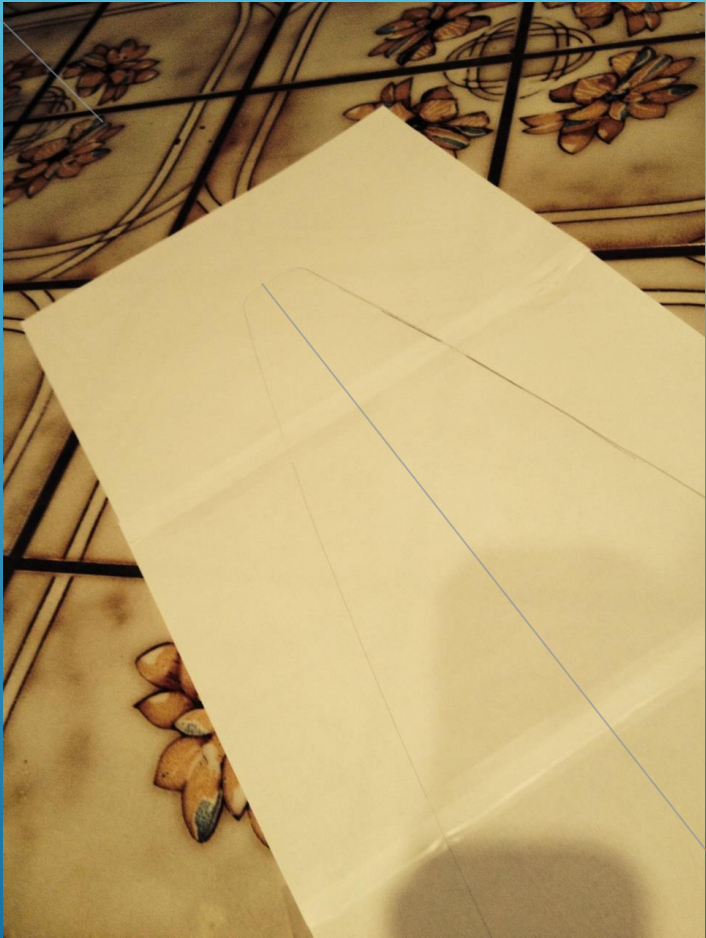
# STEPS

- ▶ 0. Design and Draw a Template for Desired Shape of board
  - ▶ 1. Assemble materials
  - ▶ 2. Cut wood
  - ▶ 3. Glue wood
  - ▶ 4. Place wood in press
  - ▶ 5. Clamp press
  - ▶ 6. Wait 24 hours
  - ▶ 7. Trace your template on to the glued wood
  - ▶ 8. Cut out template with jig saw
  - ▶ 9. Sand wood to match template
  - ▶ 10. Spray paint
  - ▶ 11. Varnish and sand
  - ▶ 12. Align and Drill Holes for trucks
  - ▶ 13. Grip board
  - ▶ 14. Attach Trucks
- 

# 0. DESIGN AND DRAW TEMPLATE

- ▶ Draw desired design on cardboard
  - ▶ Make Sure that the template is perfectly Symmetrical
  - ▶ This can be done by making a grid over the cardboard in pencil
  - ▶ This design is how your finished board will be shaped
  - ▶ **Important: Make sure in your design that there is a center line that is the exact line of symmetry**
  - ▶ Check Point
  - ▶ Cut out template with scissors
- 

# Important



# 1. ASSEMBLE MATERIALS

- ▶ Pencil
- ▶ Eraser
- ▶ 5x5x1/8" birch sheets of plywood
- ▶ 12 oz of wood glue
- ▶ Varnish
- ▶ Spray-paint
- ▶ Grip tape
- ▶ 1 board press
- ▶ 6 clamps
- ▶ Electronic sander
- ▶ Jigsaw
- ▶ Drill press
- ▶ Cloth
- ▶ Painters tape
- ▶ Yard Stick
- ▶ Table saw
- ▶ Paint brush
- ▶ Safety Goggles

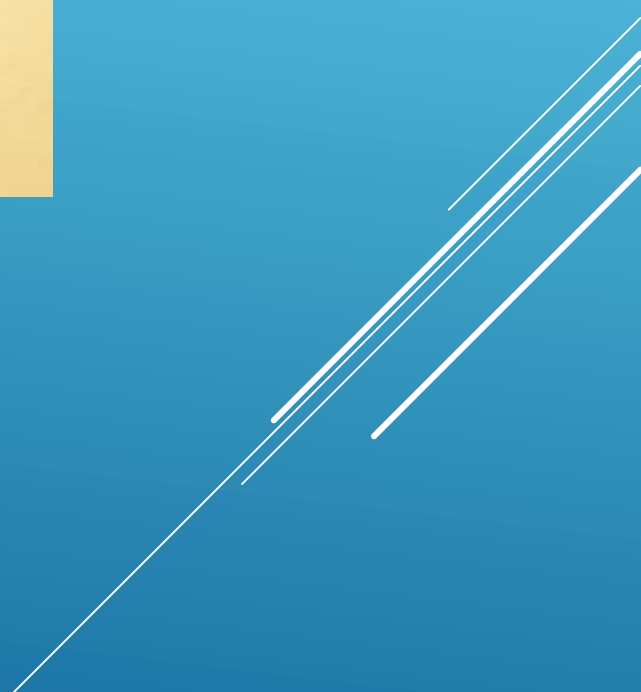


Not Pictured (table saw, boardpress, griptape)

## 2. CUT WOOD

8x4x1/4" sheet of ply wood  
Circular saw  
Table Saw  
Measuring tape  
Yard stick  
Pencil

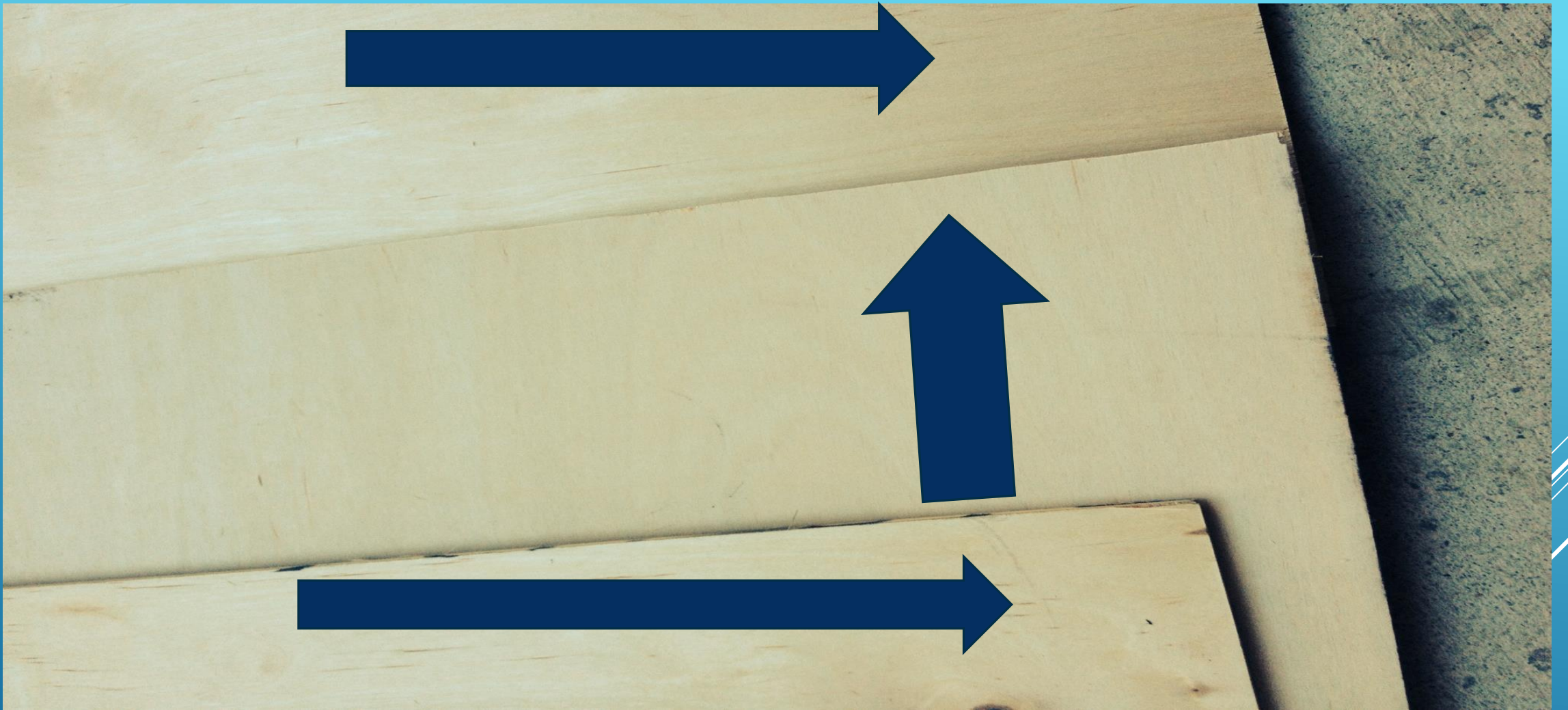
- ▶ Be safe and wear Safety Goggles
- ▶ Measure and draw a half way line on the Sheet of plywood in order to break it up in to two 4' by 4' pieces use Circular Saw
- ▶ Cut the line that you drew
- ▶ Rotate one of the plywood pieces so that the grain is perpendicular to the other ones grain
- ▶ Now measure and draw 4 , 1' sections on each of the two 4 by 4 sheets of plywood
- ▶ So if you were to cut, you would get 8 pieces of 4' by 1' by 1/4" in which 4 of them would have different facing grain
- ▶ Check point
- ▶ Cut the Lines that you drew with table saw
- ▶ You should have resulted in 8 pieces of plywood each 1' by 4'



# 3. GLUE WOOD

Paint roller  
Wood Glue  
Sheets of plywood

- ▶ Take 3 of the sheets of plywood, one of the sheets needs to have an opposite facing grain then the others
- ▶ Get 3 sheets of 1' by 4' Ply and line them up the best possible
- ▶ Pull out 2 of the sheets
- ▶ Poor wood glue on to your sheet of wood and spread it around with your brush
- ▶ Use paint brush to spread glue across the surface of one of the sheets of the regular facing grain plywood and glue it to the sheet of oppositely facing grain plywood
- ▶ Important to notice that the oppositely facing grain of plywood should be in the middle, sandwiched between the two regular grain, this insures strength
- ▶ Now Glue the other Piece of plywood to the first to taking to note the above point
- ▶ You should end up with a sandwich of plywood



notice the direction of the grains



## 4. PLACE WOOD IN PRESS



Wood sheets  
Board press



- ▶ Wash Glue off of Paint Brush
- ▶ Loosen the Clamps on press
- ▶ Take the 3 sheets of glued wood and place them inside the board press
- ▶ Wipe excess wood glue off with a towel

# 5. CLAMP PRESS

Board Press

- ▶ Tighten all 6 clamps on the press to be maximum tightness
- ▶ Wipe Glue off again

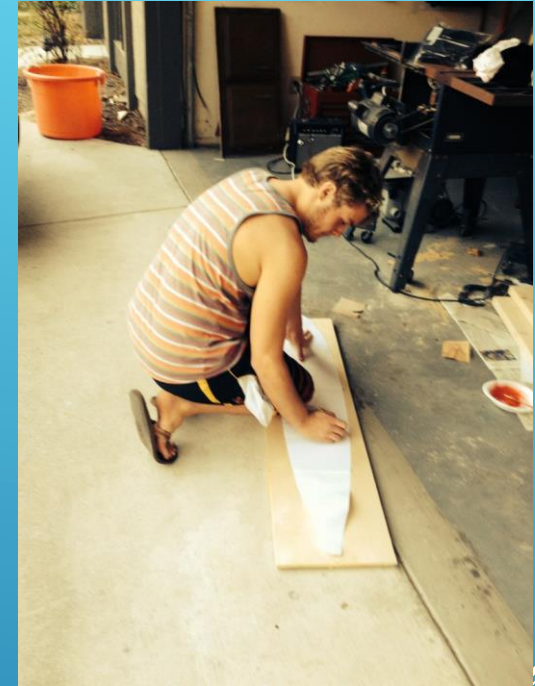


## 6. WAIT 24 HOURS

- ▶ Wait 24 hours for the glue to dry
  - ▶ Check point
- 
- A decorative graphic consisting of several parallel white lines of varying lengths, slanted upwards from left to right, located in the bottom right corner of the slide.

# 7. TRACE YOUR TEMPLATE ON THE GLUED WOOD

- ▶ Take Wood out of press
- ▶ Place Your design template on the wood
- ▶ Trace your design on the wood and make sure that it is perfect




## 8. CUT OUT BOARD WITH JIG SAW

- ▶ Use a jig saw to cut the drawn shape out of the wood
- ▶ Make sure to use a sharp saw
- ▶ Use extreme caution in this step it is key
- ▶ Checkpoint
- ▶ Do your best to make it semetrical



# 9. SAND WOOD TO MATCH TEMPLATE

- ▶ This step takes practice and should be taken with caution
  - ▶ This step is variable
  - ▶ Start off with very heavy sand paper and then get finer and finer until the board is perfectly smooth
  - ▶ You should sand the edges of the board
  - ▶ The amount of edge that is sanded is your decision
  - ▶ Do your best to make the edges rounded and look symmetrical
  - ▶ Check Point
- 

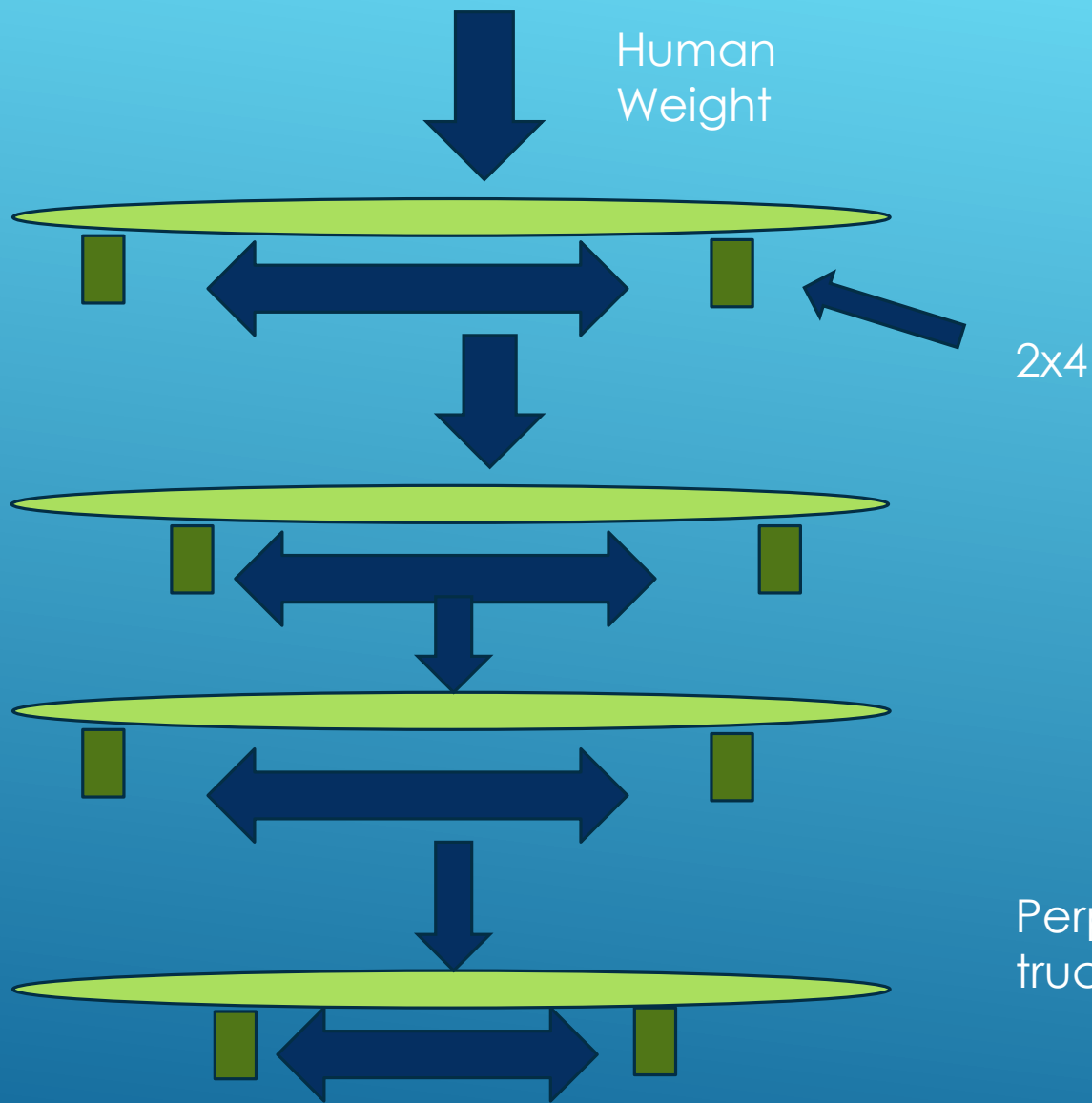


# 10. ALIGN AND DRILL HOLES FOR TRUCKS

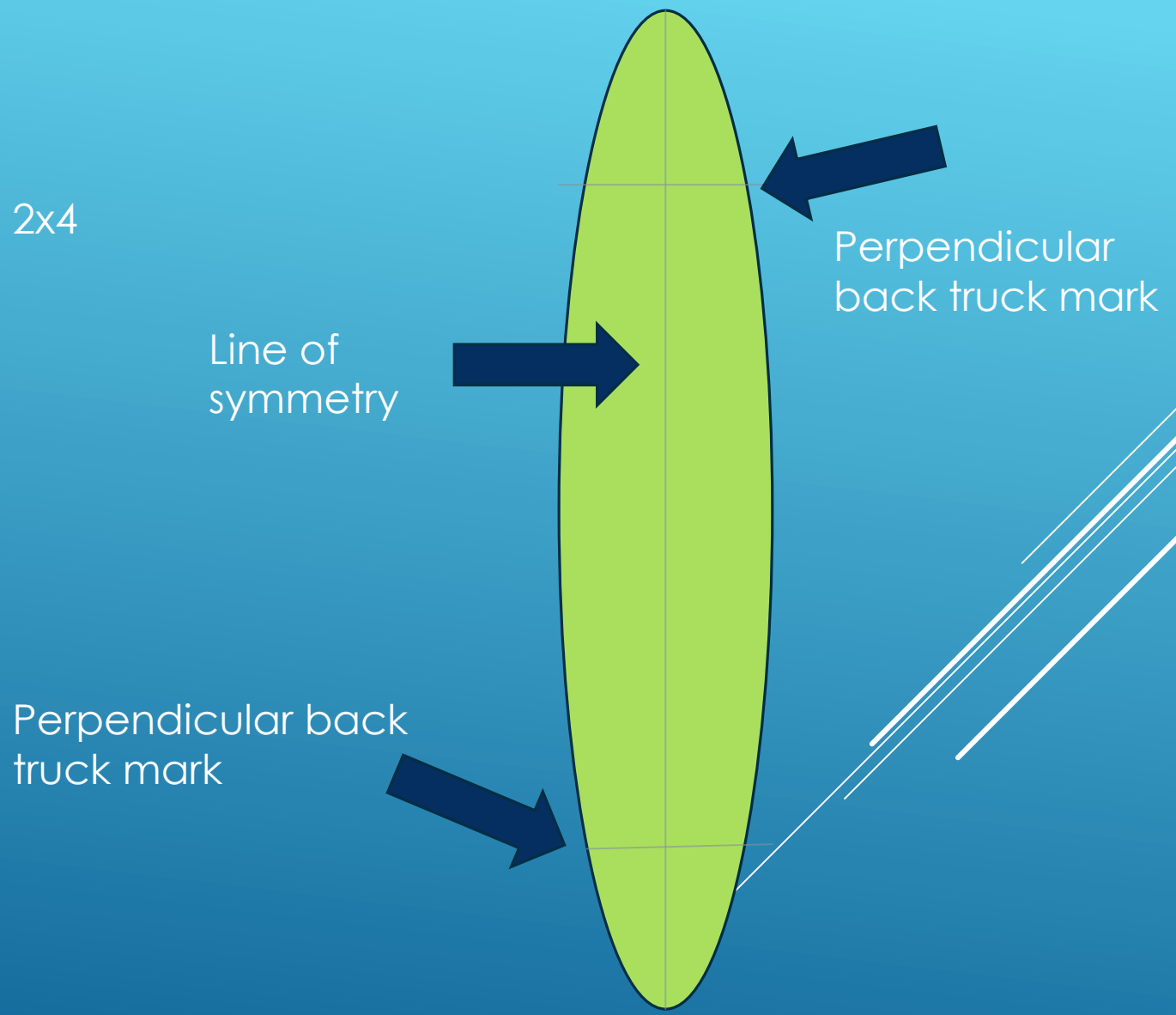
- ▶ Make sure that you still have your template and mark the center of the top and bottom of board with the previously drawn template
- ▶ Draw a line in pencil that is your new line of symmetry
- ▶ Get 2 pieces of 2x4s and adjust them depending on how much flex you want to have in your board
- ▶ **Warning if your board is long aka over 30inches, make sure not to put them far enough apart so that the pressure of a person could break the board**
- ▶ **If you are afraid it will break lightly step on it and see if it bends to much, if it does, move the 2x4s closer together**
- ▶ Once you have the right amount of flex with out enough to crack the board

Mark the spot on the board where the 2x4s are (Picture on next page)

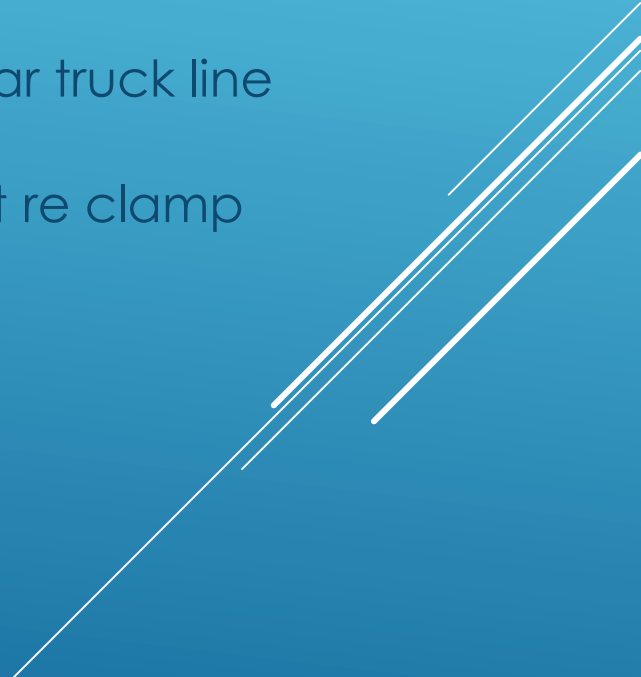
- ▶ On both ends use a T in order to draw a perpendicular line to the line of symmetry, that goes to where you drew the mark from your 2x4 (Picture on next page)
- ▶ **It is important that both of these lines are parallel**
- ▶ These two lines will be the back end of both of your trucks



Should end up with



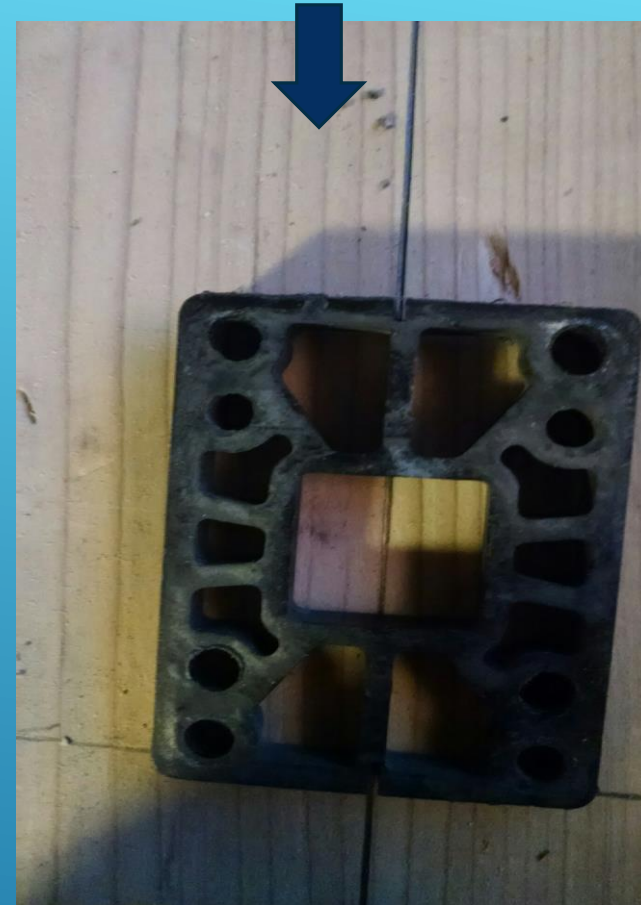
# 12. ALIGN AND DRILL HOLES FOR TRUCKS

- ▶ Now that you have the line for the back of your trucks, place the special tuck risers on the line of symmetry
  - ▶ Make sure that the back of the special truck risers is matching the perpendicular line that was just drawn
  - ▶ Make sure the slits at each end of the risers have the line of symmetry visible (in picture next page)
  - ▶ Once both lines are visible and the back is flush with the perpendicular truck line clamp the special truck risers in place
  - ▶ Make sure both the two factors still hold true and then continue, if not re clamp
  - ▶ Use a 13/64" drill bit to drill the holes
  - ▶ Use a drill press to drill through all 4 outer holes in the special truck riser
  - ▶ Unclamp and repeat to the other side
  - ▶ Erase all pencil marks on the board
  - ▶ Hand sand the holes in order to make them flush with the board
- 

Special truck riser



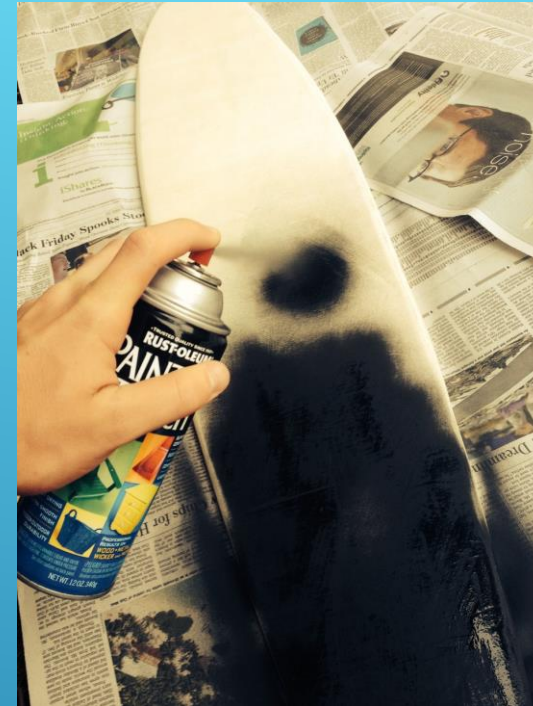
Clamp down and drill once here



Line of symmetry

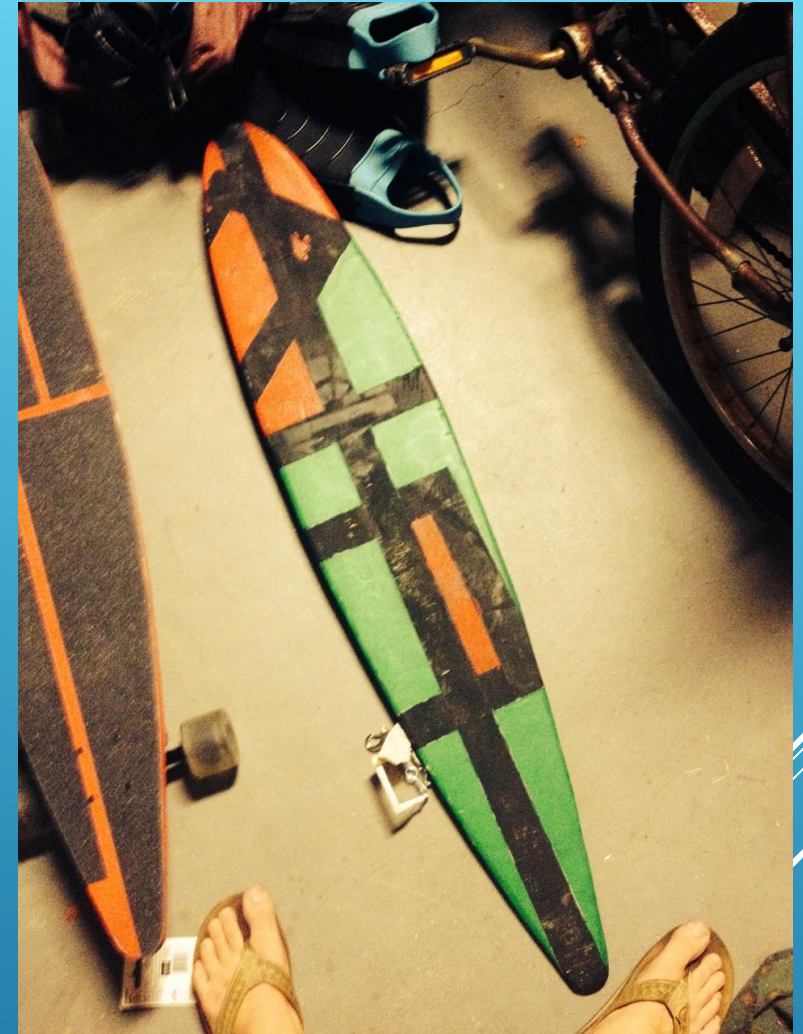
# 11. PAINT TO DESIRED STYLE

- ▶ Wipe off excess sand with cloth
- ▶ Draw your desired design
- ▶ Paint on your design using spray paint or other strong wood paints as long as they are not water based



## 12.VARNISH AND SAND

- ▶ Spray a thick coat of varnish
- ▶ Wait 30 minutes and spray another
- ▶ Wait 30 minutes and spray one more
- ▶ Sand lightly with very fine sand paper
- ▶ Wait 24 hours and repeat 2-3 times



# 13. GRIP BOARD

- ▶ Follow instructions on the video



# 14. ATTACH TRUCKS



This side  
inward

- ▶ Optional
- ▶ Screw in the trucks to the drilled holes
- ▶ Make sure that the rubber cylinders are facing inward



**Finished**

