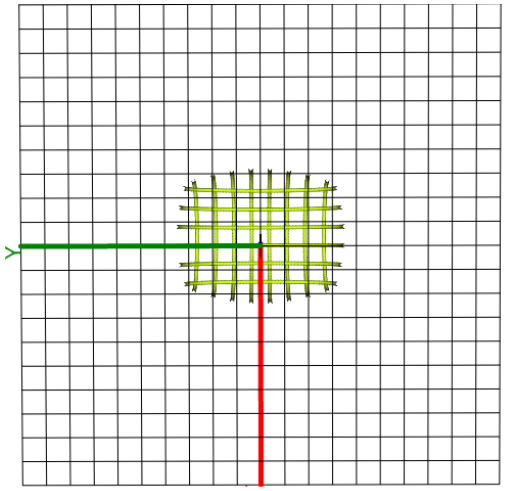
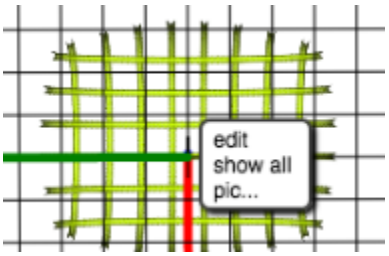
Translating your virtual design into a physical model

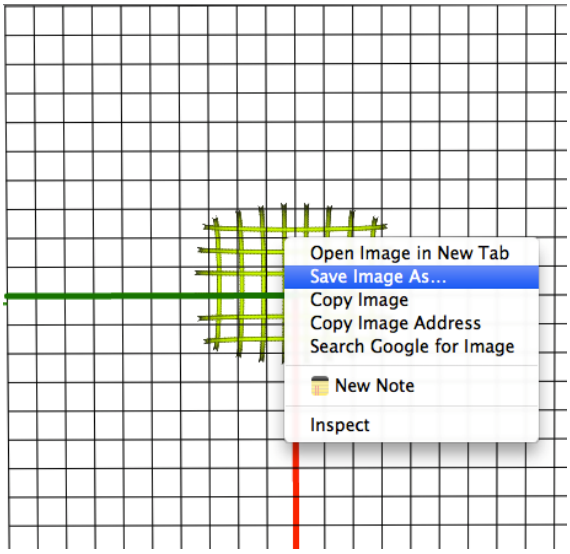
1) Turn your stage so that you can see the bottom of your arc structure.



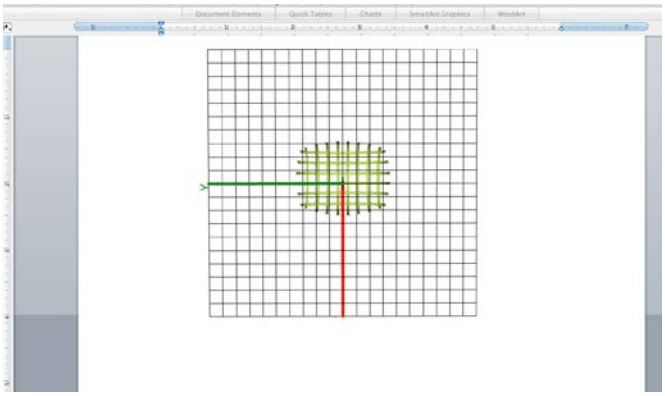
2) Right click and select "Pic".



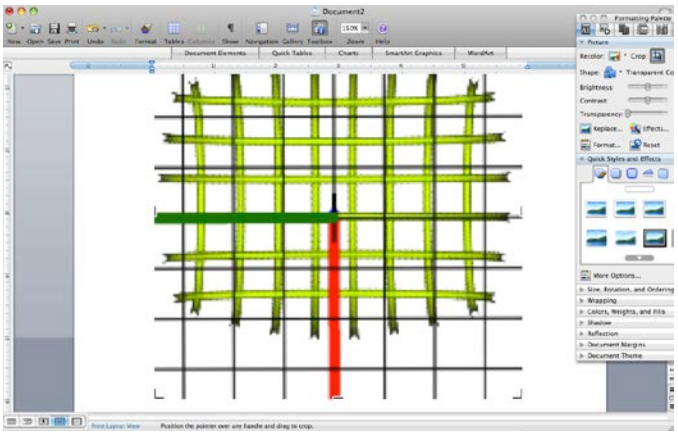
3) A new window will open with a pic of your stage, right click and save this pic.



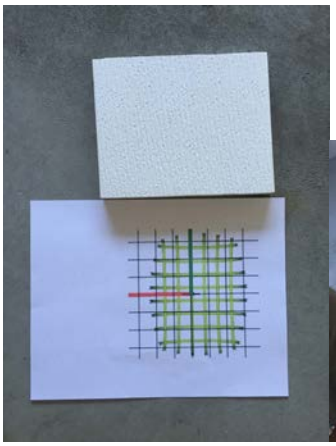
4) Open up a Word doc and import your pic.

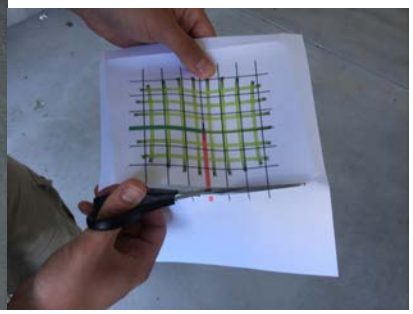


5) Crop and resize your structure so that it will take up as much of the 6x6 board as possible.



6) Print the word document and cut the image out to meet the dimensions of your 6x6 board.

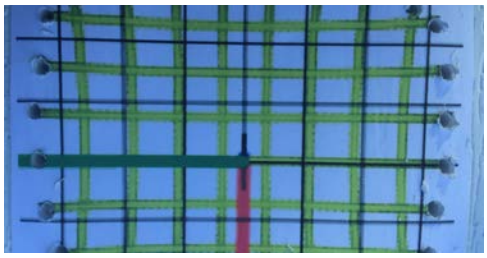




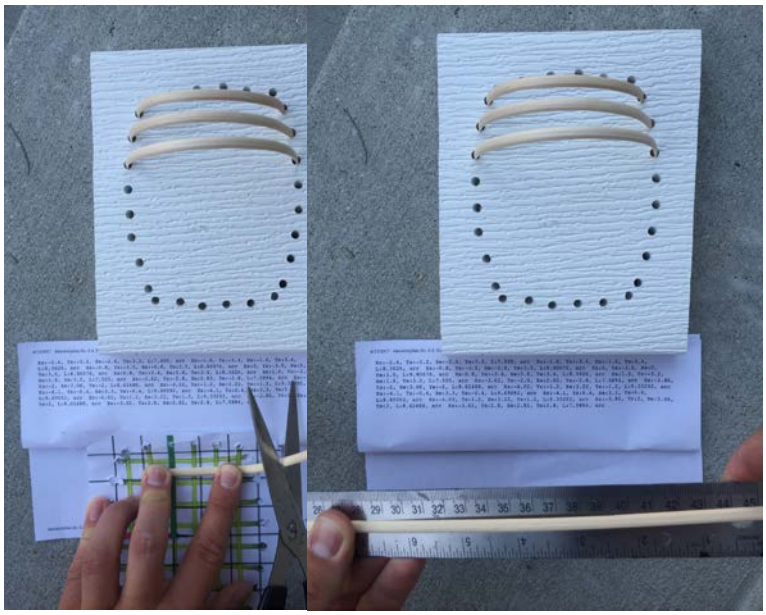
7) Use tape to secure the image on your 6x6 board.

8) Figure out what size drill bit you will need for the materials you are using. 3/16 is just right for the EL wire. Match up your drill with each position where the reed goes into the board. Drill holes through the paper and the board. Depending on the material of your arcs you may either need to go all the way through the board or not. Either way, make sure you have something like wooden board under whatever you are drilling.

9) Once you have finished drilling remove your print from the board. But before you do, figure out a way to remember the sequences for building each of the arcs.

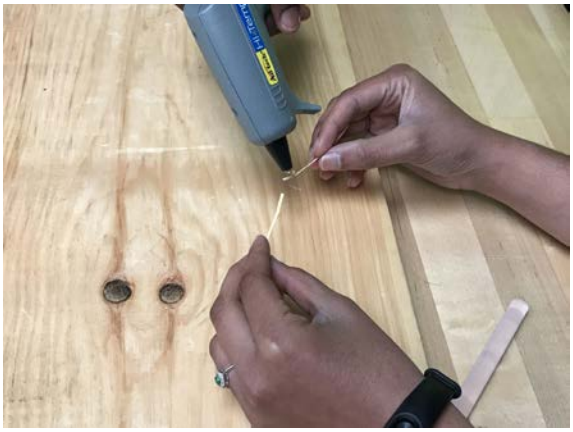


10) Now you will need to measure out your arcs (if you are using continuous material, like electroluminescent wire this will be less important). Reference your “print list” that popped up when you ran your program last. Print this list. The first measurements are your x, y coordinates for where you just drilled. Following these you will find L: x.xxx arc, this value might be something like L: 7.505 arc. This is the measurement for the length of our arch. Each value represents the number of squares on the grid of your design. So 7.505 = about 7.5 grid square. Use your print out to measure. If you don’t have enough squares on your printout you have two options: 1) use your printout for multiple measurements (if you have 7.5 squares but needs an arc 10, measure 7.5 and mark that point on your reed, then slide your paper over to that point and measure 2.5 squares to get 10. Or, 2) figure out how many inches each grid square is and multiply. So if you find out that each square is .75in multiply 7.505 by .75 = 5.6in.



12) If your design include tori you will need to reference your “print list” that should already be printed out. On your print list you will find Torus L:xx.xxx, this is the value for the length of your torus, such as Torus L:32.74484. Each value represents the number of squares on the grid of your design. So 32.74484 = about 32.7 grid square. If you don’t have enough squares on your printout you have two options: 1) use your printout for multiple measurements or 2) figure out how many inches each grid square is and multiply. So if you find out that each square is .75in multiply 32.7 by .75 = 24.525 in.

13) Secure you tori around your structure by gluing the ends of your reeds together.



14) You just made an awesome design. Time for a celebration!