Magnetic Tensegrity Table

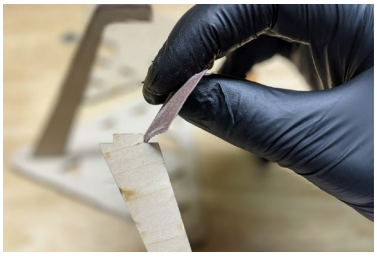
Your kit should include the following:

- 6x wood pieces
- 2x magnet
- 1x superglue
- 1x sandpaper
- A length of fishing line

Scissors and a small amount of scrap cardboard are not included but are recommended for this project.

Step 1:

Lay out the long and short arm pieces, and carefully glue the short pieces on top of the long arms as shown. Press the pieces together. Be careful not to touch the superglue!



Step 2:

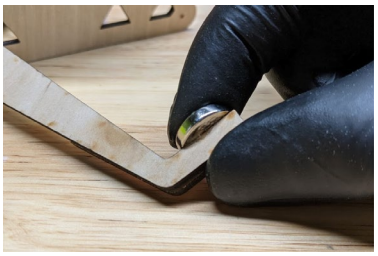
Prepare to insert the support arms into the slots on the bases. Before applying glue, test how the parts fit together. Light sanding may be required for the perfect fit.

Step 3:

Apply glue to the arms and insert them into the bases, so that the arms overhang the centre of the base piece.

Step 4:

Next, orient your magnets so that they are stuck together. **The two free faces are the sides which you will be gluing to the support arms.** Lightly run your sandpaper over the magnet to create a better surface for the glue to hold onto.

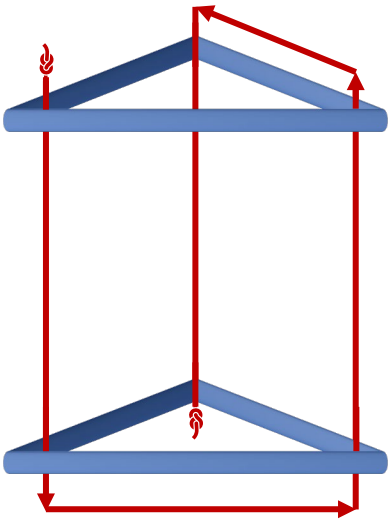


Step 5:

Once glued, press the magnet against the arm and hold it still for approximately one minute.

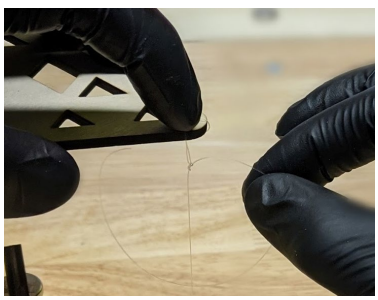
Step 6:

Both sides should now be pulled together by the magnetic forces. Place scrap cardboard in between the magnets to create a space roughly the width of your finger.



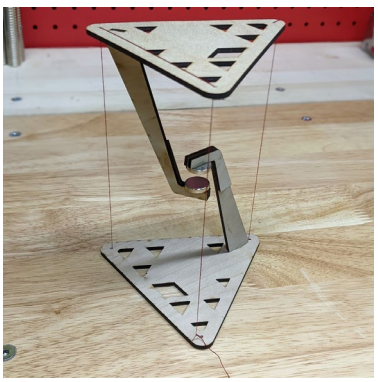
Step 7:

Run a single length of fishing line through all the small holes in the corners of the triangular base pieces. The path of the fishing line is indicated in this diagram. Do not cut the fishing line to size until you have threaded all the holes!



Step 8:

Tie one end off firmly. Pull the other end of the string taught so that the cardboard you placed in-between the magnets has very little pressure on it, and have a teammate pinch the line in place while you secure it.



Step 9:

That's it! Your Tensegrity Table should now be complete.