

Equipment:

- MaxxQ 4450
- TYR Avictor Technical Swimsuit
- 12 foot X 12 foot sheet of Nylon
- 12 foot X 12 foot sheet of Teflon
- 12 foot X 12 foot sheet of Silicone
- 36 feet of Teflon sewing Thread

Techniques:

- For testing water absorbency, I would first submerge the different materials into water for 5 minutes then put it in the MaxQ 4450 for 10 minutes to observe how much water was absorbed by the fabric.
- I would measure out a 1 foot X 1 foot square of each fabric and would use that for testing

Things that I became an expert in:

- Excel
- Google sheets

I used the three different fabrics because due to my research, silicone and nylon are the two most materials used to make tech suits. I used Teflon because due to my research, I learned that Teflon is a hydrophobic material, while nylon is a hydrophilic material. So I believed that a hydrophobic fabric would be more effective at repelling water, so I cut a 1 foot X 1 foot square from the three fabrics and submerged each fabric in a bucket of pool water for five minutes, then put the fabrics into the MaxQ 4450