

Name: _____

Date: _____



Fabrication Guide Activity Worksheet TEXTILE-SILICONE HYBRID SENSOR

Before you Build

1. Describe what a sensor is and what its role is within a robot.
2. Every sensor has an input and an output, what are some devices in your home that work by using sensors as inputs?
3. For each device's input that you listed, describe the outputs that these sensors trigger.

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1. What could this device be used for? Name a use for the soft sensor or discuss someone who may use it.
2. Within the application(s) you chose, what data would this sensor collect?
3. How can the features of this sensor solve a need within your chosen application or user?
4. What is conductivity? What are the properties that make the fabric conductive?

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1. Measure the capacitance of your sensors non-stretched vs. stretched. Which was higher and why?
2. If you were to alter the sensor's size, how might changing the geometry of it affect the application or placement on the user?
3. Were there any issues with your final result? What part of the fabrication process would you do differently next time to correct this?