Activity 7.2: Liquid Sampling

Task 1: Experimental Set-Up
- ☑ ~~Retrieve two unknown liquids from a staff member~~
- ☑ ~~Label all 3 cups and Qtips with pencil or sticky flags (1, 2, & 3)~~
- ☑ ~~Ensure the LunaSat is still connected and running code from Activity 7.1~~
- ☑ ~~Open the serial monitor~~

Task 2: Test the Capacitive Sensor
- ☑ ~~Lightly dip a cotton swab into one of the three cups~~
- ☑ ~~*Gently* spread the moist cotton swab onto the capacitive sensor. *Do not get liquid on the other parts of the LunaSat.*~~
- ☑ ~~Record the analog values that are coming up for the material~~
- ☑ ~~Wipe liquid off of the capacitive sensor using a paper towel~~
- ☑ ~~Repeat these steps for the other two liquids using a new cotton swab~~

Substance	Trial 1	Trial 2 (optional)	Trial 3 (optional)
Cup 1	340	337	339
Cup 2	142	136	145
Cup 3	698	700	696

Task 3: Identify the Liquids
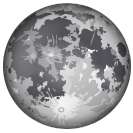- ☑ ~~Match the analog value you found in activity one to the closest value you found from the three unknown liquids~~

Substance	Sensor Output	Corresponding Cup
Air	~690	N/A
Vinegar	~210	Cup 2
Distilled Water	~320	Cup 1
Mineral Oil	~690	Cup 3

Were you able to match all the unknowns to a substance?
Cup 1 = Water
Cup 2 = Rice Vinegar
Cup 3 = Extra Virgin Oiliv Oil

<u>Activity 7.2: Liquid Sampling</u>

What was the unknown liquid you used in Activity 7.1? <u>Water mixed with regolith</u>