



Activity 8.3: Correcting for Emissivity

Task 1: Experimental Set-Up

- ☒ ~~Ensure the LunaSat is still connected~~
- ☒ ~~Open sketch Thermopile_Emissivity_Correction~~
- ☒ ~~Compile and upload the code and open the serial monitor~~

Task 2: Conduct Experiment **(DO NOT TOUCH THE THERMOPILE)**

- ☒ ~~Re-record the table values from Activity 8.1 below~~

Object	Temperature
Paper	26.22 C
Fabric	30.31 C
Aluminum Foil	24.60 C

- ☒ ~~Change the emissivity value in the code from 0.9 to another value between 0 and 1~~
- ☒ ~~Record the value used for emissivity here 1~~
- ☒ ~~Verify and upload the code and open the serial monitor~~
- ☒ ~~Record the new temperatures of the same three objects below for Trial 1~~

Object	Emissivity Value Trial 1	Temperature	Emissivity Value Trial 2	Temperature
Paper	1	25.15 C	0.1	23.0 C
Fabric	1	27.3 C	0.1	43.3 C
Aluminum Foil	1	24.60 C	0.1	15.6 c

- ☒ ~~If time permits, change the emissivity value again in the code from 0.9 to another value between 0 and 1~~
- ☒ ~~Record the value used for emissivity here 0.1~~
- ☒ ~~Verify and upload the code and open the serial monitor~~
- ☒ ~~Record the new temperatures of the same three objects below for Trial 2~~