



## **Activity 9.2: Transmitting LunaSat Data**

### Task 1: Temperature Threshold Set-Up

- ☒ ~~Use same LunaSat configuration from Activity 9.1~~
- ☒ ~~Connect the Transmit LunaSat to the computer~~
- ☒ ~~Open “**RF\_Transmit\_Temperature**” sketch and modify Team ID (line 5)~~
- ☒ ~~Compile and upload code to the Transmit LunaSat~~
- ☒ ~~Open the serial monitor for the Transmit LunaSat~~

What's the room temperature? 27.1 C

- ☒ ~~Place your finger on the temperature sensor~~

What's the temperature now? 29.1 C

- ☒ ~~Subtract three degrees and record the temperature as a threshold value~~

Threshold temperature: 28 C (in Celsius we use different value)]

### Task 2: Modify Temperature Threshold

- ☒ ~~Enter your determined temperature threshold on line 20 of the sketch~~
- ☒ ~~Verify and Re-upload the sketch~~
- ☒ ~~Open the serial monitor for the Transmit LunaSat~~
- ☒ ~~Confirm that it's not transmitting when observed temperature is beneath the threshold~~
- ☒ ~~Place finger on the temperature sensor and observe the temperature change~~
- ☒ ~~Confirm that “Transmitting” messages appear when temperature exceeds the threshold~~

### Task 3: Incorporate the Receive LunaSat

- ☒ ~~Connect the Receive LunaSat to the computer. Keep the Transmit LunaSat plugged in. Do not close the “**RF\_Transmit\_Temperature**” sketch~~
- ☒ ~~Launch the serial monitor with Receive LunaSat's port selected~~
- ☒ ~~Confirm no transmission is received~~
- ☒ ~~Place finger on the Transmit LunaSat's temperature sensor~~
- ☒ ~~Watch for reception of temperature data~~

Is the Receive LunaSat receiving the correct temperature value from the Transmit LunaSat? Yes!!!