



Activity 10.4: TX/RX Full Sensor Data

Task 1: Transmit LunaSat Set-Up

- ☒ Connect the Transmit LunaSat to the FTDI and laptop
- ☒ Select the correct board, processor, and port
- ☒ Open up the **"TX_RX_FullSensorData"** sketch
- ☒ Change the Team ID
- ☒ Compile and upload the code

Task 2: Verify Transmission

- ☒ Open the serial monitor
- ☒ Verify that data is being transmitted
- ☒ Verify that your Team ID is the first number

```
The radio is ready for use!  
11_11,701,22.180,-0.0806,0.0579,1.1897,21.03,-75.10,36.30,20.85,21.85,682  
Transmitting Data  
Transmission success!
```

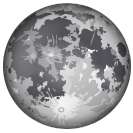
```
The radio is ready for use!  
44,706,27.453,-0.0601,0.0112,1.1775,11.42,-13.57,-1.43,24.48,25.85,697  
Transmitting Data  
Transmission success!  
Datarate: 258.47 bps
```

Task 3: Receive LunaSat Set-Up

- ☒ Connect the Receive LunaSat to the FTDI and laptop (without disconnecting the Transmit LunaSat or closing the **"TX_RX_FullSensorData"** sketch)
- ☒ Select the correct board, processor, and port
- ☒ Open up the **"RF_Receive"** sketch
- ☒ Change the Team ID if not correct
- ☒ Compile and upload the code

Task 4: Verify Data Received

- ☐ Open the serial monitor for the Receive LunaSat
- ☒ Verify that data is being received
- ☒ Verify that your Team ID is the first number



Activity 10.4: TX/RX Full Sensor Data

```
Waiting for Data  
Data received  
Message: 11,16203,22.297,-0.0710,0.0537,1.2002,12.02,-78.10,26.62,20.97,21.85,682  
Return Signal Strength Indicator: -115.00
```

```
17:24:28.343 -> Waiting for Data
```

```
17:24:30.723 -> Data received
```

```
17:24:30.723 -> Message: 71742,27.500,-0.0630,0.0066,1.1780,10.71,-14.28,-1.43,24.36,25.85,697
```

```
17:24:30.828 -> Return Signal Strength Indicator: -116.00
```