

MODULE 5

Sensors Part 2



OVERVIEW

Now that we know how various sensors can measure different aspects of the atmosphere and the flight, this module will help you learn about additional sensors we need in addition to the temperature sensors we already reviewed and incorporating all the sensors onto our Arduino board.

MATERIALS

- Built Balloon Shield
- Sensor kit
- Arduino kit
- Power Switch Kit
- Computer
- SD card and adapter
- Helping hand
- Safety glasses
- Soldering iron
- Solder
- Solder Sucker
- Wire Strippers
- Wire cutters
- Test battery

PREREQUISITES

- The [Sensors Part 1](#) module must be completed prior to this module
- You will need a [link to the code](#) mentioned in the video. Can be found in video notes, or on website as well.

Complete Prerequisites and have all Materials before continuing to activity

1 Additional Sensors

- Learn what other sensors we will be needing
- What each sensor does
- How each sensor works
- Test each sensor on breadboard

2 Add Sensors to Board

- Add each sensor to our balloon shield
- Create Arduino Code for each sensor
- Save all Arduino sketches

3 Test and Troubleshoot

- Verify all sensors work
- Troubleshoot any issues with sensors

Module Video: [Sensors Part 2](#)



NEXT STEPS

After completing all aspects of this module, you can move on to [Module 6: Structures / System Integration](#)