

The Mars Rover Project

TIMELINE

The due date for this project is June 17, 2021.

Week 1

- ❖ Monday, June 7 (1/2 hr.) – Announce Mars Rover Teams. Show off the robot, show video of the robot following a line and talk about the goals of the camp, what is an Arduino.
- ❖ Wednesday, June 9 (1 hr.) – Start the robot build in your assigned teams (7 breakout rooms)
- ❖ Friday, June 11 (1 hr.) – Continue build, hopefully finish (7 breakout rooms)
- ❖ Saturday, June 12 (2 hrs.) – (optional) - Finish build, Download Arduino IDE, run debug code, learn basic C++ code.

Week 2

- ❖ Monday, June 14 (2 hrs.) – (7 breakout rooms)
1st hour two options: A) For Saturday students, write reflectance sensor code.
B) Others will finish build, download Arduino IDE, run debug code.
Learn basic C++ code.
2nd hour – Learn more coding, subroutines, or functions.
- ❖ Tuesday, June 15 (2 hrs.) – (7 breakout rooms)
1st hour – Go over how the code works, how to calibrate, test the line following capability.
2nd hour – Talk about line following algorithms, go over basic line following code in the program.
- ❖ Wednesday, June 16 (2 hrs.) – (7 breakout rooms)
Code up more sophisticated line following algorithms and test them.
- ❖ Thursday, June 16 (2 hrs.) – (7 breakout rooms)
1st hour - Finalize the line following algorithms.
2nd hour - Race the bots!