

Students will be using EDSCRATCH to program their edison robots.

<https://www.edscratchapp.com/>

How easy is it to program Edison?

*** ENSURE THE VOLUME OF YOUR CHROMEBOOK IS ON HIGH. if it is on silent, or low it will not work

To program an Edison robot, just follow these five easy steps:

1. Choose one of the Edison robot programming languages to use and open its application in your browser. We will be using EDSCRATCH <https://www.edscratchapp.com/>
2. write your own program.
3. Connect your Edison to your programming device using the EdComm cable.
4. Press the round (record) button on your robot one time.
5. Click the 'program Edison' button in the app to download your program to your Edison robot.

Once your program has finished downloading, unplug the EdComm cable and press the triangle (play) button on Edison to run your program in the robot.

You can always make changes to your program in the programming app, or write an entirely new program to run in Edison. Then simply reconnect your Edison, download the new or adjusted program and run it in your robot to see your code come to life!

Set the stage: while we just watched a slide show about the Insight Martian lander to find out more about Mars, in the near future scientists and explorers have populated mars with a colony. While there is a lot of people on the colony, they need robots to do some tasks. Using the Edison Robots, students will be asked to do these challenges.

Challenge #1 - robot should start in Alpha Base and drive forward until the no touch zone, turn around and come back

Challenge #2 - Robot should start at Alpha Base and drive forward scoop or plow the "ROCKET FUEL" and bring it back to ALPHA base. (no touching the robot unless it is in Alpha base (they will want to touch it)

Challenge #3 - Robot starts at ALPHA Base and drives forward circles **HINT SQAURES the central No touch zone, then proceeds to BETA base.

Challenge # 4 - Robot starts at ALPHA Base, collects the "rocket fuel" and proceeds to BETA Base without the robot touching any no touch zones.

Challenge #5 Pick up supplies from the supply depot storage area and take them to Materials Processing plant

Challenge #6 Transport people to the Communications array.

Challenge #7 start at alpha base and then touch 4 no touch zones and end at beta base.