

Robotics Continuing Education (5-11-20)

In this assignment, I want you to use voltage meters and amp meters to measure the voltage and amperage in a circuit. If you've been working with the Tinkercad program, doing all of the assignments, then you are now ready to take measurements! Once again go to the Tinkercad.com and sign in as a student. The class code for Robotics I is PBP9 LGR9 HE7B. Put in your nickname, which is posted on the 4-20-20 homework assignment, if you forgot, and click on circuits. This should take you to your work site.

This week's assignment is to create a circuit and measure the voltage across some of the devices, like the light bulb, LED, or battery. Motors can sometime be troublesome in measuring the voltage across because of the back current it produces, so be aware of this. I copied and pasted some examples of circuits with amp meters and volt meters attached. Remember, you measure voltage by putting your meter **across** the device, while you measure amperage by breaking the circuit and inserting the amp meter inside the circuit - See first diagram below. In measuring amps the electricity you're measuring has to go through the meter.

Note – Wherever you see a resistor symbol you can put in a device, like a light bulb or motor.

