

Lab #1

Follow the instruction and procedures in the Student Manual, unless specified differently in this note.

Reading: Class 1 and Lab 1 in Student Manual (SM)
To 1.9 in The Art of Electronics (AE).

Lab #1

1-1 Follow the instruction for this part.

When you present your data, try to make graphs. Verify Ohm's law (at least 2 resistors) and compare the known values of the resistance with what you measured through the Ohm's law (slope in I-V graph).

Answer the questions posed in *Effects of the instruments on your readings*.

1-2 Follow the instruction and answer all the questions posed.

1-3 Follow the instruction and make plots in the linear and semi-log plot.

Additional question: What is the role of 1k resistor in the circuit?

You do not have to give answers to the questions posed on p.28.

1-4 Follow the instruction. Very important to understand a voltage divider. Why?

1-5 Get familiar with the oscilloscope (OSC).

You do not have to write this part in the report.

1-6 Get familiar with the function generator (F/G).

You do not have to write this part in the report.