

Introduction to Electronics

Power Standards

Students will be able to:

1. Demonstrate the ability to use ohm's law and Kirchoff's law to solve problems.
2. Explain how Electricity is made and moved from place to place.
3. Draw, interpret, assemble, and build from a schematic diagram.

Power Benchmarks

Students will be able to:

1. Explain matter, using electron theory & law of static charges.
2. Identify components, schematic symbols.
3. Illustrate 5 ways of producing voltage.
4. Apply Ohm's Law correctly in problems.
5. Solder components using proper heat sinks.
6. Wire electrical outlets/switches with Romex in 2x4 walls.
7. Determine resistor's value, tolerance using color code.
8. Determine the E, I, R, of each component in series and parallel circuit.
9. Measure the E, I, R in a series/parallel DC circuit without damage.
10. Compare magnetism to electro-magnetism.