



Basic Electricity

Location: COS, Visalia

CHAIRPERSON:

Margie Newton
Kings County Office of Education

ELIGIBILITY:

Individual entries only. Refer to General Rules and Information for more information.

COMPETITION DESCRIPTION:

Students will be tested on their knowledge of basic electrical terms, Ohm's Law, Watt's Law, and a basic understanding of voltage, conductors, circuit, resistors, capacitors, and inductors. They will also be required to demonstrate how to make a circuit.

WRITTEN EXAM:

The students will take a written exam to test their knowledge of basic electrical terms, Ohm's Law, Watt's Law, voltage, conductors, circuit, resistors, capacitors, and inductors. They will also be tasked with diagraming the electrical concept.

PRACTICAL EXAM:

Students will be required to make a circuit using the material provided. The students will also be asked to demonstrate the correct use of a multi-meter.

EQUIPMENT AND MATERIALS:

Students will be supplied safety glasses for the competition
Material, tools and multi-meters will be furnished.

JUDGING CRITERIA:

50%	Written exam
50%	Successful completion of a circuit and correct use of a multi-meter