

Quiz (Energy, Safety, Resistance, and Circuits)

This quiz has 40 multiple choice and true/false questions. The questions come from the class discussions and the Mr. Circuit labs, as well as the specialty labs (multimeter, series and parallel).

I would know

Information regarding the structure of matter and electron flow

- The things that make up an atom, including their charges
- Ions/ ionization

Circuit information

- Open/closed circuits
- Grounding plugs
- Fuses, their applications and key parts
- What a short circuit is

Resistance information

- Types of variable resistors and their uses
- What each band of a resistor indicates
- Converting from one unit to another

Current

- Units of resistance, voltage, and amperage (ohm's law concepts)
- Insulating properties
- Conducting properties
- Forms of energy conversion
- The two main types of current we study and some basic properties
- Series, parallel circuits and their characteristics
- Using a digital multimeter
- Static electricity

Mr. Circuit

- What the various components do