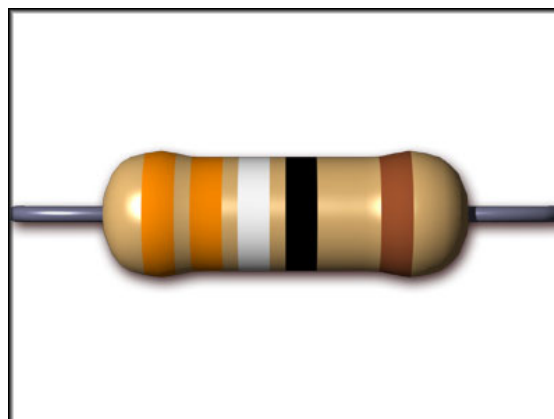


Zip Zap



By the end of this topic I will be able to:

- Explain how to use electricity safely.
- Be able to identify unsafe electrical situations.
- Explain what a current is, in terms of moving electrons.
- Explain the function of each of the following components:
 - power pack
 - wire
 - switch
 - ammeter
 - lamp
 - cell
 - voltmeter
- Set up a circuit from a circuit diagram.
- Explain the difference between parallel and series circuits.
- Design a simple circuit to solve a problem.
- Describe how to connect a voltmeter correctly
- Describe how to connect an ammeter correctly
- Use the equation $P=IV$ to calculate the power of a lamp
- Describe how electrical safety devices work (switches, fuses and earth wires)
- Recall that electricity is a form of energy, measured in joules, and that it can be changed into other forms e.g. Kinetic, heat ,light , sound.



A resistor