

# Unit 5: Electricity labs

1. Shocking! Isn't It?
2. Electric Circuits
3. Real Circuits

# Lab: Shocking! Isn't It?

Oct 23

- Follow the provided lab procedures
- [Click to download the lab procedures](#)

# Lab: Electric Circuits

October 31

- Write objectives
- Follow the provided lab procedures
- [Click to download the lab procedures](#)
- Discussion: Just describe the behavior of voltage, current, resistance, and power as more bulbs are added (1) in series and (2) in parallel.

# Lab: Real Circuits

November 7

- Materials: multimeter, circuit kit, DC power source
- Build at least 1 series and 1 parallel circuit
- For each circuit do the following:
  - Draw a circuit diagram
  - Use the multimeter to measure the total voltage and current for each circuit
  - Calculate the total resistance of each circuit
- For each bulb in each circuit do the following
  - Use the multimeter to measure the voltage and current
  - Calculate the resistance of each bulb
- Compare the true behavior of each circuit with the ideal behavior presented with the simulated circuits...why might they not be the same?

# Magnetism labs

1. Magnetic Field Mapping
2. Electromagnet

# Lab: Magnetic Field Mapping

November 12

- Follow the provided lab procedures
- Sketch Parts A and B and answer questions on own paper.
- [Click to download the lab procedures](#)
- No discussion

# Lab: Electromagnet

November 13

- Follow the provided lab procedures
- [Click to download the lab procedures](#)
- No Discussion