

Topic 3.1 How is electrical energy part of your world?

- ☐ Electrical energy has many applications.
- ☐ Many different types of energy can be transformed into electrical energy.
- ☐ Electrical energy is generated in different ways from different sources.

Topic 3.2 How do electrical charges behave?

- ☐ Electrons carry a negative charge, and protons carry a positive charge.
- ☐ Opposite charges attract each other, and like charges repel each other.
- ☐ Charged object can attract neutral objects

Topic 3.3 How do charges flow through the components of a circuit?

- ☐ Chemical energy separates electrical charges in cells.
- ☐ Charges can flow through conductors, but not insulators.
- ☐ Moving electrical charges form an electric current.
- ☐ A load resists the flow of current.
- ☐ Conductors must form a closed loop to allow current to flow.

Topic 3.4 How are circuits used in practical applications?

- ☐ Voltage, current, and resistance in a circuit are related by Ohm's law.
- ☐ Loads can be connected in series or in parallel in a circuit.
- ☐ Parallel loads are practical for circuits in the home.

Topic 3.5 How can electrical energy be generated and used sustainably?

- ☐ Sustainable use of electrical energy begins with understanding how its use is measured.
- ☐ Making informed choices helps you use electrical energy sustainably.
- ☐ Renewable energy sources provide sustainable options for generating electrical energy.

