

## **ELECTRICITY MERIT BADGE REQUIREMENTS**

Additional requirement sheets and helps are available from [ScouterMom.com](http://ScouterMom.com).

1. Demonstrate that you know how to respond to electrical emergencies by doing the following:

1a. Show how to rescue a person touching a live wire in the home

1b. Show how to render first aid to a person who is unconscious from electrical shock.

1c. Show how to treat an electrical burn

1d. Explain what to do in an electrical storm

1e. Explain what to do in the event of an electrical fire.

2. Complete an electrical home safety inspection of your home, using the checklist found in this pamphlet or one approved by your counselor. Discuss what you find with your counselor

3. Make a simple electromagnet and use it to show magnetic attraction and repulsion.



9b. Discuss with your counselor five ways in which your family can conserve energy.

10. Explain the following electrical terms: volt, ampere, watt, ohm, resistance, potential difference, rectifier, rheostat, conductor, ground, circuit, and short circuit.

11. Do any TWO of the following:

11a. Connect a buzzer, bell, or light with a battery. Have a key or switch in the line

11b. Make and run a simple electric motor (not from a kit).

11c. Build a simple rheostat. Show that it works

11d. Build a single-pole, double-throw switch. Show that it works.

e. Hook a model electric train layout to a house circuit. Tell how it works.

