

# Electricity Merit Badge Worksheet



## Requirement 1

List at least two sources of electricity:

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List at least two ways of producing electricity:

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## Requirement 2

Make a simple electromagnet. You may use the space below to draw your design.

Show and state the relationship between electricity and magnetism. You may use the extra space below to diagram the relationship.

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### Requirement 3

- Understand the difference between Direct Current and Alternating Current.
- Show use for each type of current is adapted.

#### Direct Current

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#### Alternating Current

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Give a method of determining what current flows in a given circuit: \_\_\_\_\_

### Requirement 4

Have elementary knowledge of the construction of the following:

- Cells
- Batteries
- Switches
- Electric Bells
- Transformers

### Requirement 5

Demonstrate the following:

- How to replace fuses
- Properly splice a rubber-covered wire
- Properly solder a rubber-covered wire
- Tape a rubber-covered wire

### Requirement 6

Draw a diagram showing the lights, switches, and outlets controlled by each fuse in your house.

### Requirement 7

- Read correctly an electric meter and compute the bill

