

ELECTRICITY

General/Natural
Resources Projects



Resources

- MC1001 Magic of Electricity Unit 1 Jr./Int./Sr.
- MC1002 Investigating Electricity Unit 2 Jr./Int./Sr.
- MC1003 Wired for Power Unit 3 Jr./Int./Sr.
- MC1004 Entering Electronics Unit 4 SENIORS ONLY
- Electric Tip Sheet
- Electric Score Sheets
- Electric e-record
- State Fair Exhibit Requirements

Would you like to learn about the “magic” of electric circuits, magnetism, motors and electronics? Or would you like to learn to build burglar alarms, select stereo equipment or other electronic items? Then the electricity project is for you. You will learn all of this and more through hands-on, useful and fun activities.

Magic of Electricity Unit 1 Jr./Int./Sr.	Investigating Electricity Unit 2 Jr./Int./Sr.	Wired for Power Unit 3 Jr./Int./Sr.	Entering Electronics Unit 4 SENIORS ONLY
<p>This unit is designed for members ages 8-18 years old with little to no prior electrical energy experience. Members may stay in this unit for three years.</p> <p>Members will accomplish the following learning experiences:</p> <ul style="list-style-type: none"> • Plugging in • Bright lights • Control the flow • Circuit sense • Electric attractions • Make it spin 	<p>This unit is designed for members ages 8-18 years old who understand basic electrical principles such as magnetism, electron flow and circuit design. Members may stay in this unit for three years.</p> <p>Members will accomplish the following learning experiences:</p> <ul style="list-style-type: none"> • Investigating Ohm's law • To flow or not to flow • Series and parallel circuits • Switching circuits 	<p>This unit is designed for members ages 8-18 years old who understand basic electrical principles such as magnetism, electron flow and circuit design. Members may stay in this unit for three years.</p> <p>Members will accomplish the following learning experiences:</p> <ul style="list-style-type: none"> • The code of safe practices • How much electricity are you using? • Light up your life? • What's in the box • Are your outlets grounded? • You the electrician 	<p>This unit is designed for members ages 14 and older who have an understanding of DC circuits, voltage, amperage, current flow, and polarity. (Also, some soldering experience is necessary.) Members may stay in this unit for three years.</p> <p>Members will accomplish the following learning experiences:</p> <ul style="list-style-type: none"> • LED or SCR • Operating with diodes • Performance with LED • Burglar proof • Turn up the volume