Completed (40 pageible)	
Completed (40 possible)	
Accuracy of answers (30 possible)	
Appropriate grammar (15 possible)	
Neatness of record (15 possible)	
Total	
A = 86-100 points	
B = 71-85 points	
C = 70 points or less	

4-H Electric — Level 3 Record Sheet



Record for Year A completed record sheet is due by the last business day of May to exhibit each project at the fair. Use any 4-H publications, the internet, the library, or a professional to help you prepare your responses. **The Basics** Name ______ 4-H Club _____ Years in 4-H _____ Grade _____ **Getting Started** There are several acronyms in the world of electricity. What do the acronyms listed below stand for? • DC = _____ • V = ____ • A = Define resistance as it relates to electricity. Most electrical cords have three kinds of wires. In what color would you most often find the following wires? "Hot" wire: ☐ Red □ Orange ☐ Yellow ☐ Green ☐ Blue □ Black ■ White "Neutral" wire:
Red Orange ☐ Yellow □ Green □ Blue □ Black ■ White ☐ Orange
☐ Yellow "Ground" wire: □ Red ☐ Green □ Blue □ Black ■ White Draw a line from the wire to the correct location of that wire in a typical household outlet. Hot Wire

Making Connections

How many volts are available at a typical household outlet?

How many volts are available at a typical outlet for a laundry dryer?

Neutral Wire

Ground Wire

If you were to dissect an electrical cord, you would find an outer rubber coating. What is its purpose?
If you get a kite tangled in a power line, what should you do?
Why should electrical appliances be grounded?
Lighting It Up We do not necessarily care what you spent constructing your exhibit, but it is good for you to understand that things have a cost. Even poster boards are not free. Approximately how much did you spend constructing your exhibit or think you'll spend once it is complete? Circle one. \$0.00-\$5.00 \$5.00-\$15.00 \$15.00-\$30.00 \$30.00-\$50.00 Greater than \$50.00
What did you enjoy the most about your project this year?
What was the most challenging thing you encountered with this year's exhibit?
Shining On Name 3 basic tools you may carry in an electrical repair kit and briefly describe their purpose. 1
Businesses hire electricians, and this is how some people "make a living" and take care of themselves or their families. Name two places or institutions in you could study electricity and become a certified electrician. 1
What is one thing you learned or sparked your interest as a result of completing this project?
In what way does this project apply to your life, or why is this subject matter important to you?