JACKSON COUNTY FAIR
JUNIOR CLASS – ELECTRICITY

DEPARTMENT 23 – ELECTRICITY
ATCP NO. 160.69

SUPERINTENDENT: STEVE KLING – 715-662-5053

Please see the general fair rules on our website at www.jacksoncountyfairwi.com

CLASS A – EXPLORING ELECTRICTY

1st - $2.00 2nd – $1.75 3rd - $1.50 4th – $1.25

Item

1. Simple electric attraction and repulsion exhibit, securely attached with a 3"x5" card explaining how it works
2. Simple static electrical generator. Securely attach a 3"x5" card explaining how it works
3. Water-System… Electrical-System similarities diagram, with explanation. Maximum poster size, 14"x28"
4. Alternating current display as explained in Leaders Guider Unit I
5. Electric question board
6. Steady hand tester
7. Scrapbook of experiments
8. Display of simple switch
9. Circuit board
10. Display of simple fuse
11. Any other exhibit relating to Exploring Electricity Project

CLASS B – ELECTRICITY'S SILENT PARTNER – MAGNETISM

1st - $2.00 2nd – $1.75 3rd - $1.50 4th – $1.25

Item

1. Display of a model railroad signal
2. Construct a "Whing Dinger" securely attach a 3"x5" card to explain how it works
3. A display showing how you can wire a bill for your room
4. A display of a simple Electro-Magnet
5. A simple homemade buzzer
6. Display of a telegraph station. Securely attach a 3"x5" card explaining how it works
7. A homemade electric motor
8. A display showing a simple stepdown transformer. Securely attach a 3"x5" explaining how it works
9. Scrapbook of experiments
10. Any other magnetic device

CLASS C – WORKING WITH ELECTRICITY

1st - $2.50 2nd – $2.25 3rd - $2.00 4th – $1.75

Item

1. Display of electric cords, wires or cables
2. Display of a repaired light duty extension cord. Securely attach a 3"x5" card explaining how it was done
3. Display of repaired heavy duty extension cord. Securely attach a 3"x5" card explaining how it was done
4. Old lamp that has been rewired. Securely attach a 3"x5" card explaining how it was done
5. Simple home-made test light with card securely attached telling how to properly use the light
6. A chard of the rooms of your house recording the results of your test for grounded and un-grounded receptacles. (pg 19, Members Manual)
7. A display of the four common types of conduit, with an explanation of how each is used
8. Demonstration board with 3-way and 4-way switches
9. Display showing types of fuses
10. Display of electric cords, wires or cables commonly used in home or farm wiring. Explain how each is used
11. Any other exhibit related to Electricity. Unit III

CLASS D – ELECTRICITY FOR FAMILY LIVING

1st - $2.50 2nd – $2.25 3rd - $2.00 4th – $1.75

Item

1. A poster showing 5 types of lighting with a written explanation of how this is defined
2. A display of at least 6 different Type A incandescent lamps with a description of where they are each used
3. A poster showing 3 common types of fluorescent tubes ends
4. A homemade study lamp
5. Wiring layout of your home or other building
6. A maximum 14"x22" poster showing your appliance survey. Also show watts and total watts used
7. A maximum 14"x22" poster showing your motor suvery
8. A small appliance motor that has been repaired. Securely attach a 3"x5" card explaining what was done
9. Diagram or photographs of electrical improvements made at home
10. 14"x22" poster showing the basic types of electric motors
11. Any other exhibit pertaining to Electricity, Unit IV, Electricity for Family Living

CLASS E – BEHIND THE SWITH

1st - $3.00 2nd – $2.75 3rd - $2.50 4th – $2.25

Item

1. A 14"x22" poster, using either pie charts or bar graphs to show the difference in load mix of commercial, industrial, residential, and streets and highways between your Electric Cooperative and the private power supplier (NSP) in your area
2. A 14"x22" poster showing how Hydro power generates electricity
3. A 14"x22" poster showing the Nuclear fuel cycle
4. A 14"x22" poster showing a possible geothermal steam generating system
5. A solar hot dog cooker
6. A 14"x22" poster, illustrating how to read your electric meter
7. A 14"x22" poster showing how to read your electric bill
8. Any other exhibit relative to Electricity, Unit V

CLASS F – THE WORLD OF ELECTRONICS

1st - $3.00 2nd – $2.75 3rd - $2.50 4th – $2.25

Item

1. A foxhole radio
2. A crystal radio
3. A 14"x22" poster showing how to read a resistors color code
4. A simple homemade computer to multiply numbers. Securely attach a 3"x5" instruction card with the machine
5. A repulsion coil. Securely attach a 3"x5" card (describing how to operate and what this demonstrates)
6. A simple homemade amplifier. Securely attach a 3"x5" card explaining its operation
7. A homemade radio broadcaster. Securely attach a 3"x5" card explaining its operation
8. A homemade tow-transistor radio receiver. Securely attach a 3"x5" card explaining its operation
9. A homemade tachometer. Securely attach a 3"x5" card explaining its operation
10. A homemade photo electric controller. Securely attach a 3"x5" card explaining its operation
11. A 14"x22" poster showing at least twelve common electronic symbols
12. Any other exhibit related to this project

OUTSTANDING AWARD - RIBBON

BEST OF SHOW - RIBBON