

# Dept. 23 Electricity

## Rules Governing Exhibits

Open to 4-H members enrolled in the Electricity project, FFA and other youth groups doing equivalent work.

All exhibits will be judged Tuesday, entry day, 10 a.m. - 7 p.m.

- All items will be judged face-to-face
- Posters and displays should be sized appropriately for display, with a maximum of 14" x22"

## Division A-E Premiums

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

Division A – Exploring With Electricity	Class Numbers		
	Grades3-5	Grade6-8	Grade9-13
Poster of Safety or AC vs. DC or Conductors and Insulators	1	2	3
Poster of Electric Terms and Definitions	4	5	6
Display Showing Parts of Light Bulb (incandescent and 3-way light and fluorescent)	7	8	9
Simple Switch (can be either series or parallel)	10	11	12
Homemade Light Bulb Electric Question Board	13	14	15

Division B - Electricity's Silent Partner - Magnetism	Class Numbers		
	Grades3-5	Grade6-8	Grade9-13
Simple Electromagnet	16	17	18
Simple Buzzer	19	20	21
Working Telegraph (two stations)	22	23	24
Poster Showing Different Uses or Magnetism or Parts of an Electric Motor or Things in the Home Using Magnetism	25	26	27
Homemade Electric Motor	28	29	30
Any Other Low-voltage or Magnetic Device	31	32	33
Simple Doorbell	34	35	36
Simple Homemade Motor	37	38	39

<b>Division C –Working with Electricity</b>	<b>Grade3-5</b>	<b>Class Numbers</b>	
		<b>Grade6-8</b>	<b>Grade9-13</b>
Poster Showing Different Types of Splices or Wire Sizes and Uses or Types of Plugs or On Safety	40	41	42
Trouble Light	43	44	45
Heavy Duty Extension Cord (leave end open to show wiring, use proper gauge wire, extension cord should be usable)	46	47	48
Light Duty Extension Cord (leave end open to show wiring, use proper gauge wire, extension cord should be usable)	49	50	51
Diagram Showing Wiring Layout	52	53	54
Display Showing 3-way Circuit or Fuses	55	56	57
Homemade Test Lamp	58	59	60
Display of Electric Cords, Wires or Cables	61	62	63

<b>Division D - Electricity for Family Living</b>	<b>Grade3-5</b>	<b>Class Numbers</b>	
		<b>Grade6-8</b>	<b>Grade9-13</b>
Study Lamp	64	65	66
Poster Showing Appliance Survey or Electricity Distribution System (showing watts, current voltage and kilowatts)	67	68	69
Display Showing Bulbs, Tubes or Lighting Equipment	70	71	72
Photographs Showing Lighting Improvements Made at Home	73	74	75
Homemade Lamp	76	77	78
Any Piece of Homemade Equipment	79	80	81
Wiring Layout of Your Home or Other Building	82	83	84
Any Exhibit Utilizing Energy From the Earth (solar, wind, fossil, steam, etc.)	85	86	87

<b>Division E –The World of Electronics</b>	<b>Grade3-5</b>	<b>Class Numbers</b>	
		<b>Grade6-8</b>	<b>Grade9-13</b>
Homemade Electronic Equipment (radio, capacitor, flasher, amplifier or electric organ)	88	89	90
Poster of Electronic Components	91	92	93
Diagram of How Three Electronic Circuits Work	94	95	96
Hand Built Simple Computer With Resistors	97	98	99
Electrical or Electronic Invention Utilizing Energy From the Earth (solar, wind, fossil, steam, etc.)	100	101	102
Any Other Piece of Equipment	103	104	105