

alternating current, workings of a Volt-Ohm Meter, Ohm's Law, conductors, insulators, wiring diagrams, measuring voltage, circuits, momentary switches, three-way switches, soldering, "build a burglar alarm." The exhibit may be a poster or a three-panel two-fold display board. Posters may not exceed 22"x26". Individual exhibits are limited in size to 60" wide, 24" deep and 36" high. An Educational Display Explanation Card (000-01) must be attached. Judging criteria are outlined on 4-H Educational Display Check Sheet (40-463). Both these documents are available at the county Extension Office or on the state 4-H website under Communications <http://oregon.4h.oregonstate.edu/special-events/state-fair/cm-communication>

### 862 101 3 \_\_ Education Poster - Electricity, Level 3

An educational poster on any electricity topic youth learned about in Electric Excitement Level 3 Wired for Power addressing any of these themes: electrical tools, electrical meter, identify wire and cable symbols, light bulbs, appliance nameplate information, electricity usage, receptacles, circuits, grounded and non-grounded outlets, an explanation of wall switch replacement. The exhibit may be a poster or a three-panel two-fold display board. Posters may not exceed 22"x26". Individual exhibits are limited in size to 60" wide, 24" deep and 36" high. An Educational Display Explanation Card (000-01) must be attached. Judging criteria are outlined on 4-H Educational Display Check Sheet (40-463). Both these documents are available at the county Extension Office or on the state 4-H website under Communications <http://oregon.4h.oregonstate.edu/special-events/state-fair/cm-communication>

### 862 101 4 \_\_ Education Poster - Electricity, Level 4

An educational poster on any electricity topic youth learned about in Electric Excitement Level 4 Entering Electronics addressing any of these themes: identifica-

tion of electronic parts, soldering and preparing a circuit assembly, demonstrate how a diode controls current flow, develop a circuit that shows the action of a transistor to regulate current flow, understand polarity and voltage limits of LEDs, use of a light sensitive semiconductor, assemble a circuit that gives a meter reading in response to light, show how a Silicon Controlled Rectifier (SCR) triggers an alarm, use an integrated circuit in an amplifier circuit. The exhibit may be a poster or a three-panel two-fold display board. Posters may not exceed 22"x26". Individual exhibits are limited in size to 60" wide, 24" deep and 36" high. An Educational Display Explanation Card (000-01) must be attached. Judging criteria are outlined on 4-H Educational Display Check Sheet (40-463). Both these documents are available at the county Extension Office or on the state 4-H website under

Communications <http://oregon.4h.oregonstate.edu/special-events/state-fair/cm-communication>

### Other Electricity Exhibit

Each exhibit piece must be labeled with the member's name, county and class number. Fill in the blank in class number (\_\_) with corresponding number for Junior, Intermediate or Senior member.

### 862 200 00 \_\_ Other Electricity Exhibit

- 1 Junior
- 2 Intermediate
- 3 Senior
- 4 Club

**Exhibit:** An exhibit relating to electricity addressing a different theme or using a different combination of components from those addressed in 4-H Electricity Levels 1-4. The exhibit may NOT be a poster or a robot (see the exhibit classes for Junk Drawer Robotics). It may be made from a

kit, from a pattern or plan not included in 4-H Electricity Levels 1-4, or an item designed by the member.

To qualify for judging an Electric Energy Explanation Sheet (862-02 Revised 9/2016) must be attached to the exhibit. Forms are available at the county Extension offices and at the State 4-H website: <http://oregon.4h.oregonstate.edu/special-events/state-fair/cm-set>

**In addition, intermediates and seniors must include a schematic or circuit diagram of the electricity project.** Refer to the 4-H Electric Series Level 2 book Investigating Electricity and the interactive e-learning modules for Activities 5 and 6 and Activities 7-9 posted at <http://oregon.4h.oregonstate.edu/projects/sci-tech-eng/electricity>. The Level 4 book Entering Electronics will also be a useful reference for this requirement.

## 4-H FAMILY AND CONSUMER SCIENCE

### CLOTHING/ SEWING

Members must currently be enrolled in the Clothing & Sewing project. All exhibits must be in the same level. Members may enter three construction classes and one exhibit in the creativity and hands for larger service classes. Senior and Intermediate members may also enter one exhibit in the Innovation and Celebrate our World classes. Members and clubs are also encouraged to enter Educational Displays.

Judging criteria are outlined in 4-H Sewing/Clothing Construction Score Sheet (320-01) found at: <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials> and 4-H Sewing/Clothing Creative Expression Score Sheet (320-02) and the Innovation Evaluation Sheet (998-02) found at: <http://oregon.4h.oregonstate.edu/special-events/state-fair/cm-family>. Judging standards are listed in

Measuring Up: Quality Standards for Sewn Items/Projects (PNW-197). Skills appropriate for each project level are listed in Sewing Skills Checklist, CO677. **Each entry will be evaluated on ALL features, not just the skills listed in the respective enrollment levels.** For skill levels 1-6 the use of fabrics or skills that are beyond the recommendations for this level are expected to be done well according to the standards, but will neither be given extra credit consideration for increased

difficulty nor disqualified during judging. It is in the best interest of the member to stay within the suggested guidelines.

A 4-H Sewing/Clothing Exhibit Explanation Card (320-04) for sewing exhibits and the Innovation Explanation Card (998-01) are available from Extension office or at: <http://oregon.4h.oregonstate.edu/special-events/state-fair/cm-family> must be securely attached to each entry. The card requests information about the exhibit which is needed by the judge for evaluation.

Hangers and/or garment bags are removed from exhibits prior to judging and might not be returned.

In addition to the 4-H Sewing/Clothing Exhibit Card, each garment or article in the construction classes must be labeled with the member's name, county, and project level. This label should be typed or printed in indelible pencil or ink on a piece of white fabric and sewn or fused onto the bottom inside of each piece. Clothing /Sewing exhibits need to have a 5 x 8 inch sized card with the member's name and county in large print attached. Suggested font is Arial Black, with the name in 48pt and county directly below the name in 36pt font.

**Note: Fill in blank in class number (\_\_) with corresponding number for Junior, Intermediate, or Senior for Basic and Expanding skill levels. The Advanced skill level is for Intermediate and Senior level only.**



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