

### **861 105 1 \_\_ Computer Software Application, Multimedia Projects**

Description: Projects created by youth that show learning in the area of Multimedia Projects. Software can be any current software including online versions. Project should be created by the participant to show their multimedia skills. In general, multimedia includes a combination of text, audio, still images, animation, video, or animation. Multimedia combines multiple content forms. Youth are responsible for submitting clear directions on how judges can access the files. See additional exhibit requirements, above, for Technology classes. Evaluation: Use Computer Software Application Evaluation available at: <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

### **861 100 2 \_\_ Computer Programming**

Description: Projects created by youth that show learning in the area of programming. Project should be created by the participant to show their programming skills. Hard copy or travel/thumb drive (for programs with excessive pages, such as GameMaker software) of the program must be submitted. It is up to the youth to ensure the program will function or display at Fair. Intermediate and Senior members are expected to have applied their projects to real world scenarios. Youth are responsible for submitting clear directions on how judges can access the files. See additional exhibit requirements, above, for Technology classes. Evaluation: Use Computer Programming Evaluation available at: <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

### **861 100 3 \_\_ Computer Hardware Design**

Description: Projects created by youth that show learning in the area of hardware. Project should be an original creation by the participant that shows their computer hardware skills. It is up to the youth to ensure the hardware and project will function or display at Fair. Intermediate and Senior members are expected to have applied their projects to real world scenarios. Youth are responsible for submitting clear directions on how judges can access the files. See additional exhibit requirements, above, for Technology classes. Evaluation: Use Computer Hardware Evaluation available at: <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

## **ROBOTICS PROJECT**

### **863 102 1 \_\_ Education poster- Robotics Level 1**

An educational poster on any robotics topic youth learned about in Junk Drawer Robotics, Level 1, Give Robots a Hand, addressing the theme robotic arms, hands and grippers. Display should demonstrate knowledge gained in one of these topics: Posters must not exceed 22"x28". Judging criteria are outlined on the *4-H Education Display Check Sheet* (40-463) available from the county Extension Office or the state 4-H website at <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

### **863 102 2 \_\_ Education poster- Robotics Level 2**

An educational poster on any robotics topic youth learned about in Junk Drawer Robotics, Level 2, Robots on the Move, addressing the theme moving, power transfer and locomotion. Display should

demonstrate knowledge gained in one of these topics: Posters must not exceed 22"x28". Judging criteria are outlined on the *4-H Education Display Check Sheet* (40-463) available from the county Extension Office or the state 4-H website at <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

### **863 102 3 \_\_ Education poster- Robotics Level 3**

An educational poster on any robotics topic youth learned about in Junk Drawer Robotics, Level 3, Mechatronics, addressing the theme the connection between mechanical and electronic elements. Display should demonstrate knowledge gained in one of these topics: Posters must not exceed 22"x28". Judging criteria are outlined on the *4-H Education Display Check Sheet* (40-463) available from the county Extension Office or the state 4-H website at <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

### **863 103 1 \_\_ Robotics / Lego Robotics**

Description: Project should involve youth created robots. They can be created from kits or from miscellaneous parts. All robots will be returned after fair. More weight is given for youth designed projects. Robot and full description of what it is meant to accomplish must be submitted. Robots will be judged on structural stability, creativity, functionality. Youth are responsible for submitting clear directions on how judges can access the files and make robot function. See additional exhibit requirements, above, for Technology classes. Evaluation: Use Robotic Evaluation available at: <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

## **Engineering**

### **ELECTRICITY PROJECT**

Exhibits will be any of the articles included in the project manuals that show skills learned in the project. Items must be labeled with member's name, county, and class number. To qualify for judging, an *Electric Energy Explanation Card* must be attached. Forms are available at the county Extension offices and at the State 4-H website: <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>. **Intermediates and seniors must include a schematic diagram.** The exhibit may be a poster or a three-dimensional display. Individual exhibits are **limited in size to 30" wide, 24" deep (front to back), and 36" high. Club exhibits are limited in size to 60" wide, 24" deep and 36" high.**

Classes will be divided into the following groups:

- 862 100 001** Electricity, Junior
- 862 100 002** Electricity, Intermediate
- 862 100 003** Electricity, Senior

### **Mechanical Science**

You may enter ATV, automotive, bicycles, handyman, small engines, snowmobile, etc., projects in the Educational Display classes found in the *Communications* section of the fair book.

### **WOOD WORKING PROJECT**

In each class, the exhibit shall be one article or pair of articles made of wood by the 4-H member. Completed "Woodworking Explanation Card" 871-02 is required to qualify the exhibit for judging. Judging criteria are outlined on 4-H Woodworking Exhibit Score Card (40-635), available at the county

Extension office or on the State 4-H website at: <http://oregon.4h.oregonstate.edu/fair-exhibit-and-contest-materials>

- 871 100 001** Woodworking, Junior
- 871 100 002** Woodworking, Intermediate
- 871 100 003** Woodworking, Senior

## **TRACTOR PROJECT**

In each class the exhibit shall be an educational exhibit which will show or illustrate what the member has learned. Include an explanation telling: (a) how the exhibit was made or what was done in the project; (b) operating instructions (if appropriate); and (c) what the member learned by doing the project. **Explanations are required** to qualify the exhibit for judging.

- 881 100 001** Junior
- 881 100 002** Intermediate
- 881 100 003** Senior

## **Communications**

The 4-H member must be enrolled in the project in order to exhibit in that project, except computers, videography, educational displays and conservation which are open to all 4-H members

### **Videography**

Videography classes are open to all 4-H members and/or teams in all project areas. Members may enter **one exhibit per class.**

Suitable topics include project and non-project related subject matter. All portions of the video and sound must support the 4-H code of behavior. Audio or video parts not actually recorded by the member(s) must be from the public domain or not infringe on copyright. Public display of the video will be at the discretion of 4-H management. All audio or video parts not recorded by member must be given credit at the end of the movie. (Time for the credit roll does not count in the movie minutes) Videos must be between 30 seconds and 10 minutes in length, not including the entry information at the beginning.

All exhibits must be accompanied by a Videography Exhibit Explanation Card (213-03). Judging criteria are outlined on the Videography Score Sheet (213-01). Both are available from the county Extension Office or state 4-H website at: <http://oregon.4h.oregonstate.edu/fair-bookcommunications>

To be eligible for judging, videos must be presented in a format viewable on any computer or uploaded to the website. Options and instructions are available from the county Extension office or the state 4-H website at: <http://oregon.4h.oregonstate.edu/communications-projects>

**Fill in blank in class number ( ) with corresponding number for Junior, Intermediate, Senior, or Club/Team**

- 1** Junior
- 2** Intermediate
- 3** Senior
- 4** Club/Team