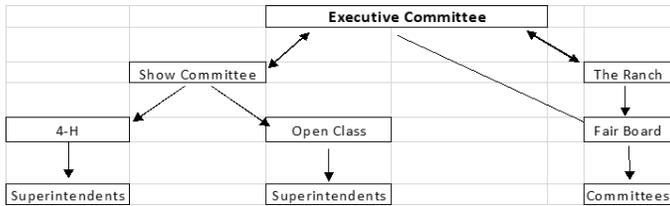


# General Information

**Cooperation:** The Larimer County Fair & Rodeo is held in cooperation with the Larimer County Board of Commissioners, The Ranch, the Larimer County Fair Board, the PRCA Rodeo Committee and the Larimer County Office of Colorado State University Extension. The Larimer County Fair & Rodeo does not discriminate on the basis of race, color, sex, religion, age, disability, sexual preference, veteran or marital status, or national origin in its policies or activities.

## County Fair Structure



**Executive Committee:** Made up of a County Commissioner, CSU Extension Director, The Ranch Director, The Fair Board President, and the Rodeo representative.

**4-H Fair Show Management:** Show Committee and volunteer Superintendents.

**Fairground Location:** The Larimer County Fair is held at The Ranch located just east of Interstate Highway 25, between exit numbers 259 (Crossroads Blvd.) and 262 (Windsor Highway 392). Access to grounds is off of Fairgrounds Avenue (County Road 5). The mailing address of the Fair Office is 5280 Arena Circle, Suite 101, Loveland, Colorado 80538. Phone 970-619-4009; Fax 970-619-4085. **(Fair Extension Office Phone is 970-619-4080, July 12 - August 13)**

**Responsibility:** The Ranch, Larimer County Fair Board, and Extension staff will use reasonable diligence to insure safety of exhibits after their arrival and placement but in no case will they be responsible for any loss or damage done to, occasioned by, or arising from any animals or articles on exhibition. The exhibitors shall indemnify The Ranch, Larimer County Fair Board and Extension staff and volunteers of all legal or other proceedings in regard thereto. The entry of any exhibits on the show grounds by any and all exhibitors shall signify his or her agreement to abide by this rule.

**Leash Law:** Larimer County and the City of Loveland require all dogs to be on a leash at all times on public property. For the safety of animals and people, The Ranch discourages bringing dogs to the Larimer County Fair & Rodeo.

## Exhibition Hall Schedule

The First National Bank Building South Exhibition Hall and McKee 4-H Building are open for public viewing:  
 Friday, August 6 ..... 4:00 p.m. to 8:00 p.m.  
 Saturday, August 7 ..... 10:00 a.m. to 8:00 p.m.  
 Sunday, August 8 ..... 10:00 a.m. to 8:00 p.m.  
 Monday, August 9 ..... 2:00 p.m. to 8:00 p.m.  
 Tuesday, August 10 ..... 2:00 p.m. to 7:00 p.m.

**First Aid and Emergencies:** Every effort will be made to have Emergency Medical Services personnel on site during the busiest times of the Larimer County Fair & Rodeo. A First Aid room will be designated. Please contact any staff member if you need assistance for medical treatment and in the event of a life-threatening emergency, please call 911.

**Thank you note for Awards -** All special awards and trophies are provided by sponsors. These people need to receive a thank you note from the winners in order to encourage their sponsorship for future years. Names and addresses of award sponsor(s) are located on the bottom of the award or in an envelope received when premium money is received.

## Larimer County Fair Congeniality Award

The Ted and Mabel Thompson Fair Congeniality Memorial Award will be presented to a Junior Fair exhibitor who works "above and beyond the call of duty" at the 2021 Larimer County Fair. Nominations are to be made via letter to the Extension Office, postmarked no later than **September 15** and should include a brief description of what the individual did to make the 2021 Larimer County Fair a better event. Anyone can nominate an exhibitor. The award will be presented at the county 4-H Achievement Program.

# Exhibitor General Rules and Regulations

**1. Entries – Prior Entry is required in all departments.** Entry through FairEntry <http://larimercountyfair.fairentry.com> must be completed by 6:00 p.m., July 9.

**2. Late Entries – Fair Entries received after 11:59 p.m. July 9 are subject to a \$25 late charge per class. No late entries will be taken after 11:59 p.m. on Sunday July 11 for exhibits.**

**3. Premiums and Special Awards:** Exhibitors who win a placing ribbon, i.e., Blue (1<sup>st</sup>), Red (2<sup>nd</sup>), White (3<sup>rd</sup>) receive a cash award (premium). Exhibitors may collect payment for premiums and special awards during the following times.

**Wednesday, August 11:** 7:00 a.m. - 7:00 p.m. (4-H Departments)

**Thursday, August 12:** 9:00 a.m. - 4:00 p.m. (4-H Departments)

**Friday, August 13:** 8:00 a.m. - 12:00 noon (4-H Departments)

**Award Money not collected before noon, Friday, August 13 will be forfeited. No Exceptions.**

**4. Judging** – See the judging schedule posted on the website. The decision of the judges will be final. No exhibitor shall be permitted to follow the judges about while the awards are being made. No exhibitor, parent, or superintendent shall try to influence the judge, or in any way hinder the progress of judging. Any discourtesies to the superintendents, judges, or fair officials by the exhibitor, parent, or other person shall be reported to the **Superintendent or Extension staff person with responsibility for that particular class or area.** Violators of this rule will be barred from one or more future Larimer County Fairs.

**Any spectator that is interfering with the judging of any event will be asked to leave the show ring area.**

**5. Release of Exhibits** – No exhibit shall be released until 7:00 a.m. Wednesday, August 11, except livestock as listed in the schedule. All exhibits in the 4-H Building must be picked up between 7:00 a.m. and 10:00 a.m., Wednesday, August 11. Open Class exhibits in the South Exhibition Hall must be picked up between **5:00 p.m. and 7:00 p.m., Wednesday, August 11. The 4-H Fair Show Management will not be responsible for exhibits left after 7:00 p.m., August 11.** Removal of any exhibit before the designated time will cause the forfeiture of award money. Early removal requires a written approval from the affected Department Head Superintendent or Department Extension contact person.

**6. Rule Violation** – A report of a rule violation may be communicated by any means to a member of the **Show Management Committee** or Superintendent with responsibility for that particular class or area. All reports regarding conduct or activity during the County Fair shall be made immediately. Any reports of violations of Fair rules will be promptly, impartially, and fully investigated. The identity of the individual(s) making reports of possible violations or protests and the identity of individuals against whom allegations have been made will be confidential and only revealed as is necessary to investigate the allegations and for any disciplinary hearings. A **Show Management Committee member** or Superintendent with responsibility for that particular class or area will communicate final decisions with appropriate parties.

**7. Protest** – A protest is an allegation that a specific rule of the Larimer County Fair has been violated and must be made in writing and be signed by the person making the protest (and signed by at

least one adult). Such protest must set out the particular allegations in detail and state which specific Larimer County Fair rule has been violated on the Appeal Form. A protest must be accompanied by \$100.00 for protests. Said protest fee shall be paid in cash or check and will be returned if the protest is sustained. All protests shall be submitted to the **Show Management Committee** with responsibility for that particular class or area immediately after the occasion for such protest, up to 2 hours after the decision or incident being protested. No protest of the Judge's decision will be considered.

A **Show Management Committee** has been established and will include 2 recruited Superintendents with knowledge of the issue/topic to support making an unbiased and informed decision.

A final decision will be made and communicated in writing to the protester and individual in question from the **Show Management Committee**. Any exhibitor, 4-H parent or legal guardian, or 4-H leader who violates any rule or regulation may be subject to forfeiture of all privileges, awards, and premiums and to such other penalty as agreed to by the **Show Management Committee**.

In the event that the exhibitor is not satisfied by the protest resolution, the exhibitor may appeal the protest resolution to the Fair Executive Committee. The appeal must be in writing, on an Appeal Form, and accompanied by a fee of \$100.00 in cash or check. The appeal shall plainly state the matter being appealed and shall be delivered to a member of the **Show Management Committee** with responsibility for that particular class or area within 2 hours of the protest resolution was communicated. The decision of the Fair Executive Committee is final. The fee(s) imposed above shall be refunded if the matter is resolved in favor of the person bringing the protest or appeal. The forms and policy further explain the protest and appeals procedure.

The Fair Executive Committee has the final and absolute opportunity to evaluate the appeal of review committee. Any exhibitor, 4-H parent or legal guardian, or 4-H leader who violates any rule or regulation may be subject to forfeiture of all privileges, awards, and premiums and to such other penalty as agreed to by the Executive Committee.

**8. Unsportsmanlike Conduct** – When an exhibitor, parent or leader is guilty of unsportsmanlike conduct and/or inhumane/unethical treatment of an animal, the privilege of that person to participate in future Larimer County Fairs may be revoked.

**9. The use of marijuana and CBD in any display, food item, or exhibit is prohibited and shall be rejected. The exhibitor shall be referred to law enforcement.**

**10. Alcohol Restrictions:** Pursuant to Colorado Statute 12-47-901(1)(h)(I), it is illegal to bring **any** outside alcoholic beverages onto the Larimer County Fairgrounds and Events Complex, including parking lots. Alcoholic beverages not purchased on the premises will be confiscated immediately and may result in fines and/or ejection from the premises.

Out of respect for the goals of the 4-H Youth Development Program and the Colorado 4-H Code of Conduct, alcoholic beverages are discouraged in the 4-H camping areas, Thomas M. McKee 4-H Youth and Community Building, and areas where 4-H animals are housed.

**Conduct / Consequences: \*Intoxication and/or disorderly conduct will be turned over to 4-H.**

## **4-H Rules & Regulations**

**1. Eligibility:** Only members in good standing regularly and actively enrolled in the Larimer County 4-H program who have carried out and completed all required project work to date, are eligible to exhibit and show in the 4-H fair classes. (Members must have passed their 8th birthday but not their 19th birthday on December 31, 2020. 4-H exhibitors must be enrolled in the project in which they are exhibiting. 4-H Cloverbuds must have passed their 5th birthday on December 31, 2020.

**2. Prior Entry:** Prior entry is required in all 4-H departments. See section 1 under Exhibitor General Rules and Regulations above.

**3. Adding Classes:** Classes may be created by Extension Agents for emerging youth development programs under auspices of Larimer County Office of Colorado State University Extension.

**4. Code of Conduct:** The Larimer County Fair and Rodeo is a family event environment. Patron behavior is expected to be consistent with this family atmosphere. Any violations of rules at The Ranch, local ordinances, or State Statutes may result in eviction from the facility and/or the filing of criminal charges. All 4-H members, parents and leaders must abide by the Colorado 4-H Code of Conduct.

# General Division

## (Static Projects)

Coordinating Superintendent – Cindy Buckardt

Assistants – Brent Buckardt, Curtis Buckardt

Extension Contact – Katie Daywalker & Bailey Schilling

### Rules

1. **Entries** - Prior entry is required in all departments. Entry will be made through FairEntry: <http://larimercountyfair.fairentry.com/>  
**Entry deadline is July 9.**

**Late Entries – Fair Entries received after 11:59 p.m. July 9 are subject to a \$25 late charge per class. No late entries will be taken after 11:59 p.m. on Sunday July 11 for exhibits.**

2. **All project areas will be Judged:** Every effort should be made to participate in the interview judging process, but it is not mandatory.

### Interview Judging Procedures

A. Scheduling for the interview judging will be through FairEntry.

Login and follow the directions to schedule an interview.

<http://larimercountyfair.fairentry.com/>

All interview judging will be done on Tuesday, **August 3** from **9:00 a.m. - 5:30 p.m.** Sign up will be through the FairEntry program. You will only be able to schedule times for classes you have entered.

B. Exhibits will be checked in at time of the interview.

C. Interviews will not be assigned for members who do not schedule a time. **If an exhibitor is unable to participate in interview judging, the exhibit may be brought to the 4-H Building on Tuesday, August 3, between 8:30 a.m. – 10:00 a.m. and picked up between 7:00 a.m. – 10:00 a.m. on Wednesday, August 11.**

3. Ages for the Junior and Senior classes are as follows:

Junior – members ages 8 - 13, as of December 31, 2020.

Senior – members 14 and over, as of December 31, 2020.

When classes include Junior, Intermediate and Senior, class divisions are as follows:

Junior - 8 to 10 years, as of December 31, 2020

Intermediate - 11 to 13 years, as of December 31, 2020

Senior - 14 years and over, as of December 31, 2020

4. **Entry labels will be available at check-in. Label will need to be attached to the upper right hand front outside of the binder/notebook and on the exhibit, usually the back of the exhibit or on the flap.**

5. **Exhibits will be released and must be removed between 7:00 a.m. – 10:00 a.m. on Wednesday, August 11.** No exhibit will be released prior to that time. All articles **MUST** be checked out with the Superintendent(s) in charge. Superintendents and Extension Office are not responsible for exhibits after check-out time.

6. Completed records must accompany all 4-H General projects. Members are to fill out an e-record and include the proper project information and present it in a sturdy binder/notebook. You may find the e-record at <https://larimer.extension.colostate.edu> Click on 4-H, 4-H Projects. Select your project from the list and find your e-record or you can obtain one from the Extension Office.

7. Members enrolled in more than one unit of the same project may exhibit in both units. An exhibit made for more than one project cannot be entered in more than one department or class. The exhibitor

must make the choice. Exhibitors must be enrolled in the project unit they are exhibiting in and must follow exhibit requirements. **No** live bees, live ammo, broad heads, knives, or functional firearms are allowed to be displayed in any project.

8. **Projects will be evaluated on the quality of information completed in the manual and e-record (25 percent) and quality of exhibit (75 percent).** Ribbons will be awarded on the Danish system. A champion and/or reserve champion will be awarded in each class if there are entries of championship quality and will be selected from **the blue award exhibits only**, except where otherwise indicated.

9. **Picking up Award Money:** Please see the Exhibitors Rules section on **page 2, #3** for the procedure.

10. The champion exhibit in each class will represent Larimer County at the State Fair, except where otherwise indicated. **All exhibits qualifying for State Fair must be checked in by exhibitors and/or parents in the Fort Collins Room during check-out time. Exhibits will be taken to State Fair on Wednesday, August 18.**

**Premium money will be:**

**Blue – \$3.00; Red – \$2.00; White – \$1.00**

## Displays for County Fair 4-H Exhibits

Display boards are the only boards that can be used for 4-H projects.

1. Display boards are made of lightweight cardboard and are sturdy, attractive, inexpensive, and available at most local stores. They come in several colors. When opened, the 1 foot wide winged sides provide a surface to help the exhibits stand alone on a table top. **The standardized display board size of 4' x 3' is to be used for 4-H projects.**

2. No headers. No attachments are allowed on the display boards that would prevent the board from lying flat.

### Tips

1. Boards must be easily read from a distance of 3-to-5 feet. Use large, bold letters (at least 3" high) for exhibit title or captions.

2. Design the exhibit, keeping in mind the size and shape of the open show board (three surfaces including the wings).

3. When mounting items on the display board, avoid things that are bulky or heavy which could cause the display board to collapse. Mount items securely so they won't fall off. Tape will not work.

4. You have only **60 – 90 seconds** for the message to be read; be concise.

5. Tell your story with visuals.

6. Avoid putting too much in the exhibit. It should never have a crowded look.

7. Dark lettering on a light background is most visible.

8. Do not use headers or attachments on your display board.

**Binder:** (For e-Records, additional materials, and manuals)

1. Use a sturdy binder to hold the e-Record, manuals, supplements, and other materials securely.

2. Stacks easily and lies flat.

3. **Do not use the slider-type binders** as the e-Record, manuals, supplements, and other materials will not stay secure in these types of binders.

# Animal Science Veterinary Science

## Exhibit Requirements

### All exhibits will consist of the following:

A. A project manual and e-Record presented in a sturdy binder/notebook including these items: manual with appropriate sections completed, e-Record and other attachments related to activities in the manual. Do a minimum of seven activities, any combination of activities and booster shots.

**Note:** List the day, month, and year for the date of completed activities/booster shots on page 4 of the manual.

B. A display board illustrating a topic investigated during the project year. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

## Unit 1

### From Airedales to Zebras

#### Class

101. .... Unit 1- From Airedales to Zebras – Junior  
102. .... Unit 1 – From Airedales to Zebras – Intermediate  
103. .... Unit 1 – From Airedales to Zebras – Senior

## Unit 2

### All Systems Go

#### Class

104. .... Unit 2 – All Systems Go – Junior  
105. .... Unit 2 – All Systems Go – Intermediate  
106. .... Unit 2 – All Systems Go – Senior

## Unit 3

### On the Cutting Edge

#### Class

107. .... Unit 3 – On the Cutting Edge – Junior  
108. .... Unit 3 – On the Cutting Edge – Intermediate  
109. .... Unit 3 – On the Cutting Edge – Senior

**Note:** Turn in work from the above manuals. Do not fill out the Nebraska materials, (The Normal Animal, Animal Disease, and Animal Health). They are a resource only.

## Special Awards

Overall Champion Veterinary Science Exhibit

**Big Thompson Animal Hospital**, Mickey Wiltz, DVM,  
Loveland

Outstanding Unit 1 Veterinary Science Exhibit

**Anna Nelson Memorial Award, Gathright Family**,  
Fort Collins

Outstanding Unit 2 Veterinary Science Exhibit

**Randy & Marlene Burbach Family**, Loveland

Outstanding Unit 3 Veterinary Science Exhibit

**Mountain View Feeders**, Chad & Nikki Uthmann, Fort Collins

Outstanding Junior Veterinary Science Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Intermediate Veterinary Science Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Senior Veterinary Science Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Horseless Horse

## Exhibit Requirements

All exhibits will consist of the following:

A. The completed project manual and e-Record presented in a sturdy binder/notebook.

B. A display board illustrating a topic investigated during the project year. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

### Unit 1

#### Making Horse Sense

Class

201. .... Unit 1 – Making Horse Sense – Junior

202. .... Unit 1 – Making Horse Sense – Intermediate

203. .... Unit 1 – Making Horse Sense – Senior

### Unit 2

#### Hooves, Health and Horsemanship

Class

204. .... Unit 2 – Hooves, Health & Horsemanship – Junior

205. .... Unit 2 – Hooves, Health & Horsemanship – Intermediate

206. .... Unit 2 – Hooves, Health & Horsemanship – Senior

### Unit 3

#### Breaking Ground

Class

207. .... Unit 3 – Breaking Ground – Junior

208. .... Unit 3 – Breaking Ground – Intermediate

209. .... Unit 3 – Breaking Ground – Senior

### Unit 4

#### Brushing Up On Horses

Class

210. .... Unit 4 – Brushing Up On Horses – Junior

211. .... Unit 4 – Brushing Up On Horses – Intermediate

212. .... Unit 4 – Brushing Up On Horses – Senior

### Special Award

Overall Champion Horseless Horse Exhibit

**Animal Medical Services of the Rockies**, Karen Riedlinger,  
DVM, Wellington

Outstanding Junior Horseless Horse Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Intermediate Horseless Horse Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Senior Horseless Horse Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Cats

All exhibits will consist of the following:

A. A completed **Cat Display e-Record** presented in a sturdy binder/notebook.

B. A display board illustrating a topic investigated during the project year. The standardized display board size of 4' x 3' is to be used. No additional items may be included in front of display board.

## Unit 1 Purr-Fect Pals

Class

- 301. .... Cat 1 – Junior
- 302. .... Cat 1 – Intermediate
- 303. .... Cat 1 – Senior

## Unit 2 Climbing Up

Class

- 304. .... Cat 2 – Junior
- 305. .... Cat 2 – Intermediate
- 306. .... Cat 2 – Senior

## Unit 3 Leaping Forward

Class

- 307. .... Cat 3 – Junior
- 308. .... Cat 3 – Intermediate
- 309. .... Cat 3 – Senior

## Special Award

Overall Champion Cat Exhibit

**Mountain Trails 4-H Club**, Dee Dee Farago, Loveland

Outstanding Junior Cat Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Intermediate Cat Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Senior Cat Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Biological Science Gardening

Superintendent - David Rubenthaler

## Exhibit Requirements

All exhibits will consist of the following:

A. A project manual and e-Record presented in a sturdy binder/notebook including these pages of the manual : pages 43, 44 & 45 in See Them Sprout; pages 45, 46 & 47 in Let's Get Growing; pages 45, 46 & 47 in Take your Pick; and pages 45, 46 & 47 in Growing a Profit in the e-Record.

B. A display board illustrating a topic investigated during the project year. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

## Unit 1 See Them Sprout

Class

401. .... Unit 1 - See Them Sprout – Junior  
402. .... Unit 1 – See Them Sprout – Intermediate  
403. .... Unit 1 – See Them Sprout – Senior

## Unit 2 Let's Get Growing

Class

404. .... Unit 2 – Let's Get Growing – Junior  
405. .... Unit 2 - Let's Get Growing – Intermediate  
406. .... Unit 2 – Let's Get Growing – Senior

## Unit 3 Take Your Pick

Class

407. .... Unit 3 – Take Your Pick – Junior  
408. .... Unit 3 – Take Your Pick – Intermediate  
409. .... Unit 3 – Take Your Pick – Senior

## Unit 4 Growing Profits

Class

410. .... Unit 4 – Growing Profits – Senior Advanced

## Special Award

Overall Champion Garden Exhibit

**Larimer County Master Gardeners**, Alison O'Connor, Larimer County

Outstanding Junior Garden Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Intermediate Garden Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Senior Garden Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Mechanical Sciences

## Computers

1. 4-H members may stay in a unit for more than one year. The exhibit has to be different each year.

2. Youth are only allowed to enter a display board exhibit or programming or a stand-alone exhibit, not all.

All exhibits will consist of the following:

A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual for the Unit enrolled in and completed e-Record.

B. A completed exhibit consists of **ONE** of the following:

1. A display board illustrating a topic learned as a part of the 4-H project. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

2. Programming Exhibit (a printed copy of a digital presentation is required and placed in your e-record). Electronic equipment will only be used during judging time and will not remain on display during the Fair. Programs available online (such as Scratch) should include a link to the specific project you have created:

Beginning Programming – a simple program using Scratch (or other simple graphic programming language). The program should include 8 different commands including looping and getting input from the keyboard and mouse.

Intermediate Programming – a program using Scratch (or other simple graphic programming language) that you have downloaded from the internet and modified. Compare the two programs and demonstrate the changes you have made to the original program; OR create an animated storybook or video game using Scratch (or other simple programming language).

Advanced Programming – creating a program using a block for script within the very script that defines the block Or an original program using higher level programming language such as Python, Javascript, C++, etc.

3. A stand-alone exhibit demonstrating a skill learned or an item developed. For example, a Makey Makey keyboard or a micro controller project.

### Discovering Computer Science & Programming Through Scratch – Level 1

#### Display Board Exhibits

<b>Class</b>	
601. ....	Computer Science – Junior
602. ....	Computer Science – Intermediate
603. ....	Computer Science – Senior

#### Beginning Programming

<b>Class</b>	
604. ....	Beginning Programming – Junior
605. ....	Beginning Programming – Intermediate
606. ....	Beginning Programming – Senior

#### Stand-Alone Exhibits

<b>Class</b>	
607. ....	Computer Science – Junior
608. ....	Computer Science – Intermediate
609. ....	Computer Science – Senior

### Discovering Computer Science & Programming Through Scratch – Level 2

#### Display Board Exhibits

<b>Class</b>	
610. ....	Computer Science – Intermediate
611. ....	Computer Science – Senior

#### Intermediate Programming

<b>Class</b>	
612. ....	Intermediate Programming – Intermediate
613. ....	Intermediate Programming – Senior

#### Stand-Alone Exhibits

<b>Class</b>	
614. ....	Computer Science – Intermediate
615. ....	Computer Science – Senior

### Discovering Computer Science & Programming Through Scratch – Level 3

#### Display Board Exhibits

<b>Class</b>	
616. ....	Computer Science – Intermediate
617. ....	Computer Science – Senior

#### Advanced Programming

<b>Class</b>	
618. ....	Advanced Programming – Intermediate
619. ....	Advanced Programming – Senior

#### Stand-Alone Exhibits

<b>Class</b>	
620. ....	Computer Science – Intermediate
621. ....	Computer Science – Senior

### Computers in the 21<sup>st</sup> Century

#### Display Board Exhibits

<b>Class</b>	
622. ....	Computers in the 21 <sup>st</sup> Century – Intermediate
623. ....	Computers in the 21 <sup>st</sup> Century – Senior

#### Stand-Alone Exhibits

<b>Class</b>	
624. ....	Computers in the 21 <sup>st</sup> Century – Intermediate
625. ....	Computers in the 21 <sup>st</sup> Century – Senior

### Special Award

- Overall Champion Computer Exhibit
- All-In-One Computer**, Jeff Bernhardt, Loveland
- Outstanding Junior Computer Record Book
- Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins
- Outstanding Intermediate Computer Record Book
- Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins
- Outstanding Senior Computer Record Book
- Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Electrics

## Unit 1

### Magic of Electricity

#### Exhibit will consist of the following:

A. Completed project manual (at least three required activities completed; at least four Optional activities – Brain Boosters completed; at least two leadership activities completed); and e-Record presented in a sturdy binder/notebook.

B. One article or display board (**not both**) that you have made as a part of this unit of study. (Example: homemade flashlight, simple switch, circuit with two batteries and one light bulb, compass, electromagnet, galvanometer, electric motor, etc.) The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

#### Class

701. .... Unit 1 - Magic of Electricity – Junior

702. .... Unit 1 - Magic of Electricity – Intermediate

703. .... Unit 1 – Magic of Electricity – Senior

## Unit 2

### Investigating Electricity

#### Exhibit will consist of the following:

A. Completed project manual (at least three required activities completed; at least four Optional activities – Brain Boosters completed; at least two leadership activities completed); and e-Record presented in a sturdy binder/notebook.

B. One article or display board (**not both**) that you have made as a part of this unit of study. (Example: circuit diagrams with explanation, series circuit, parallel circuit, momentary switch, three-way switch, soldered connection, rocket launcher, burglar alarm, etc.) The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

#### Class

704. .... Unit 2 - Investigating Electricity – Junior

705. .... Unit 2 - Investigating Electricity – Intermediate

706. .... Unit 2 - Investigating Electricity – Senior

## Unit 3

### Wired for Power

#### Exhibit will consist of the following:

A. Completed project manual (at least three required activities completed; at least four Optional activities – Brain Boosters completed; at least two leadership activities completed); and e-Record presented in a sturdy binder/notebook.

B. One article or display board (**not both**) which you have made as a part of this unit of study. (Example: electrical tool and supply kit, display of symbols on wires and cables and their meanings, display of light bulbs and the jobs they do best, display board on how to read an appliance name tag, chart showing the electrical usage of appliances, display board on how to replace a switch, etc.) The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

#### Class

707. .... Unit 3 - Wired for Power – Junior

708. .... Unit 3 - Wired for Power – Intermediate

709. .... Unit 3 - Wired for Power – Senior

## Unit 4

### Entering Electronics

#### Exhibit will consist of the following:

A. Completed project manual (at least three required activities completed; at least four Optional activities – Brain Boosters completed; at least two leadership activities completed); and e-Record presented in a sturdy binder/notebook.

B. One article or display board (**not both**) which you made as a part of this unit of study. (Example: display of electronic parts, diode, transistor, light emitting diode (LED), LED flasher photocell alarm, light meter, silicon-controlled rectifier (SCR) intruder alarm, 6 - 8 watt amplifier with integrated circuit, etc.) The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

#### Class

710. .... Unit 4 - Entering Electronics – Senior

### Special Awards

Overall Champion Electrics Exhibit

**High Country Handiworkers 4-H Club**, Cindy Buckardt, Loveland

Outstanding Junior Electrics Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Intermediate Electrics Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Senior Electrics Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Model Rocketry

**Model Rocketry (Exhibit)**  
Superintendent – Ryan Gebhardt

## Note to all units:

1. Rocket exhibits must relate to the skill level for the unit entered. Units 1 - 4 should include the color picture of the rocket and skill level title from the rocket-kit package as part of their record book. All project material must be organized and secured in a sturdy binder/notebook. Unit 6 must have a copy of plans or blueprints including instructions "step by step" to build the rocket.

2. Fins must be balsa wood (**balsa and basswood**) and finished with paint in classes indicated. **No plastic fins for Unit 1 – 3.**

3. Fins of plastic or other materials must be exhibited in Units 4 and 6.

4. Rockets are to be displayed and held **vertically by a substantial rod or support** no taller than the rocket on a **stationary** base appropriate to the size of the rocket not to exceed 12" x 12" x 1" thick. Only the rocket will be judged. Do not decorate the base. **No triangular stands can be used for displaying the rockets. No launching pads should be used for displaying the rockets.**

5. Do not include live or expended engines in the rocket exhibited.

## Note to all units:

6. If rocket is damaged in launching, it can still be judged for quality of construction, e-Record, and pictures. **Launching your rocket is not a requirement. It is a good idea, however, to make 2 rockets – one for exhibit and one to launch if possible.**

7. Display rockets cannot be used for Rocket Fly Day competition.

**Note:** Please read specific rules for your Unit.

## Unit 1 Introduction to Rocketry

**(Must sign up for Model Rocketry Fly Day separately. See page 14.)**

### Exhibit will consist of the following:

A. Completed **Model Rocketry e-Record** presented in a sturdy binder/notebook.

B. On the Model Rocketry page enter the rockets you built in this unit. Include the following information:

1. Model name; skill level; from a stock kit, modified kit or self-designed-and-built.
2. Power: single-stage, multi-stage, cluster
3. The fuselage: single-tube or glider rear-engine or glider front-engine or glider canard.
4. Engine information: engine code, label color, and type of recovery system.

C. If the rocket was launched provide the following information on the Model Rocketry page:

1. Number of times successfully launched; kind of launch pad used.
2. Kind of electrical system used.
3. Tracking method used.

4. Observer's distance from rocket; angle achieved, and altitude achieved; any special problems before, during and after launching.

5. What did you do to overcome the problems you encountered?

D. One rocket personally built or other display related to work done at Skill Level I.

### Balsa Fins Only

#### Class

**801.** ..... Unit 1 - Introduction to Rocketry - Junior

**802.** ..... Unit 1 - Introduction to Rocketry - Intermediate

**803.** ..... Unit 1 - Introduction to Rocketry - Senior

## Unit 2 Basic Model Rocketry

**(Must sign up for Model Rocketry Fly Day separately. See page 14.)**

### Exhibit will consist of the following:

A. Completed **Model Rocketry e-Record** presented in a sturdy binder/notebook.

B. On the Model Rocketry page enter the rockets you built in this unit. Include the following information:

1. Model name; skill level; from a stock kit, modified kit or self-designed-and-built.
2. Power: single-stage, multi-stage, cluster
3. The fuselage: single-tube or glider rear-engine or glider front-engine or glider canard.
4. Engine information: engine code, label color, and type of recovery system.

C. If the rocket was launched provide the following information on the Model Rocketry page:

1. Number of times successfully launched; kind of launch pad used.
2. Kind of electrical system used.
3. Tracking method used.
4. Observer's distance from rocket; angle achieved, and altitude achieved; any special problems before, during and after launching.
5. What did you do to overcome the problems you encountered?

D. One rocket personally built or other display related to work done at Skill Level II.

### Balsa Fins Only

#### Class

**804.** ..... Unit 2 - Basic Model Rocketry - Junior

**805.** ..... Unit 2 - Basic Model Rocketry - Intermediate

**806.** ..... Unit 2 - Basic Model Rocketry - Senior

### Unit 3

#### Intermediate Model Rocketry

(Must sign up for Model Rocketry Fly Day separately. See page 14.)

##### Exhibit will consist of the following:

A. Completed **Model Rocketry e-Record** with completed questions in manual, pages 31 – 35, presented in a sturdy binder/notebook.

B. On the Model Rocketry page enter the rockets you built in this unit. Include the following information:

1. Model name; skill level; from a stock kit, modified kit or self-designed-and-built.
2. Power: single-stage, multi-stage, cluster
3. The fuselage: single-tube or glider rear-engine or glider front-engine or glider canard.
4. Engine information: engine code, label color, and type of recovery system.

C. If the rocket was launched provide the following information on the Model Rocketry page:

1. Number of times successfully launched; kind of launch pad used.
2. Kind of electrical system used.
3. Tracking method used.
4. Observer's distance from rocket; angle achieved, and altitude achieved; any special problems before, during and after launching.
5. What did you do to overcome the problems you encountered?

D. One rocket personally built or other display related to work done at Skill Level III.

##### Balsa Fins Only

###### Class

807. .... Unit 3 - Intermediate Model Rocketry - Junior  
808. .... Unit 3 - Intermediate Model Rocketry - Intermediate  
809. .... Unit 3 - Intermediate Model Rocketry - Senior

### Unit 4

#### Advanced Model Rocketry

(Must sign up for Model Rocketry Fly Day separately. See page 14.)

##### Exhibit will consist of the following:

A. Completed **Model Rocketry e-Record** with completed questions in manual, pages 14 – 18, presented in a sturdy binder/notebook.

B. On the Model Rocketry page enter the rockets you built in this unit. Include the following information:

1. Model name; skill level; from a stock kit, modified kit or self-designed-and-built.
2. Power: single-stage, multi-stage, cluster
3. The fuselage: single-tube or glider rear-engine or glider front-engine or glider canard.
4. Engine information: engine code, label color, and type of recovery system.

C. If the rocket was launched provide the following information on the Model Rocketry page:

1. Number of times successfully launched; kind of launch pad used.
2. Kind of electrical system used.
3. Tracking method used.

4. Observer's distance from rocket; angle achieved, and altitude achieved; any special problems before, during and after launching.
5. What did you do to overcome the problems you encountered?

D. One rocket personally built or other display related to work done at Skill Level IV or Skill Level V.

##### Finished fins of any type.

###### Class

810. .... Unit 4 - Advanced Model Rocketry - Junior  
811. .... Unit 4 - Advanced Model Rocketry - Intermediate  
812. .... Unit 4 - Advanced Model Rocketry - Senior

### Unit 6

#### Designer Model Rocketry

(Must sign up for Model Rocketry Fly Day separately. See page 14.)

##### Exhibit will consist of the following:

A. Completed **Model Rocketry e-Record** with design worksheets and completed questions in manual, pages 35 - 39, presented in a sturdy binder/notebook. Must have a copy of the plans or blueprints on how to build the rocket.

B. If the rocket was launched provide the following information on the Model Rocketry page:

1. Number of times successfully launched; kind of launch pad used.
2. Kind of electrical system used.
3. Tracking method used.
4. Observer's distance from rocket; angle achieved, and altitude achieved; any special problems before, during and after launching.
5. What did you do to overcome the problems you encountered?

D. One rocket personally designed, built (no kits) and used in unit or display related to work done.

##### Finished fins of any type.

###### Class

813. .... Unit 6 - Designer Model Rocketry - Junior  
814. .... Unit 6 - Designer Model Rocketry - Intermediate  
815. .... Unit 6 - Designer Model Rocketry - Senior

### Special Awards

Overall Champion Model Rocketry Exhibit

**Larimer County 4-H Junior Leader Club**, Amelia Macy, President, Timnath

Outstanding Junior Model Rocketry Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Intermediate Model Rocketry Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Senior Model Rocketry Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Model Rocketry Fly Day

Superintendent – Ryan Gebhardt

Saturday, July 31, 8:00 a.m. - The Ranch

## Prior Entry Required

1. All rockets must have a label specifying the rocket skill level and must be brought to Fly Day to compete.
2. Exhibitor must fly a rocket pertaining to the skill level in which they are entered. Your exhibit rocket cannot be used for Fly Day, and your Fly Day rocket cannot be used for exhibit. **Member must fly in unit enrolled.**
3. Units 1 - 4 must have a colored picture of their rocket from kit or catalog with proof of skill level and recommended first flight engine. Unit 6 must state the size of their first flight engine at check-in.
4. Rockets must be launched with **first flight engines only** and use a parachute recovery system. (Streamer and tumble recovery not allowed.)
5. Launching equipment will be set up. Members are to supply their own rocket, engines, parachutes and wading. A field box is advisable.
6. Each participant will launch their rockets twice, **time, weather, and facilities permitting.** Be prepared for a second launch.
7. Event to be judged on: range safety, construction, flight stability, chute deployment, altitude and landing.
8. Level 4 rocketeers may use level IV or V rockets.
9. Rockets entered in state fair judging may not be used for Rocket Fly Day competition.
10. If you would like your Fly Day Rocket displayed at Fair, bring your rocket and awards on Tuesday, August 3, between 9:00 a.m. & 5:00 p.m. to the McKee 4-H Building.

## Class

- 669. .... Unit 1 - Level 1 - Rocket with Balsa Wood Fins - Junior
  - 670. .... Unit 1 - Level 1 - Rocket with Balsa Wood Fins - Senior
  - 671. .... Unit 2 - Level 2 - Rocket with Balsa Wood Fins - Junior
  - 672. .... Unit 2 - Level 2 - Rocket with Balsa Wood Fins - Senior
- (A member may exhibit in this unit more than one year.)

### For units 3-6 –finished fins of any type

- 673. .... Unit 3 - Level 3 - Junior
- 674. .... Unit 3 - Level 3 - Senior
- 675. .... Unit 4 - Level 4 - Junior
- 676. .... Unit 4 - Level 4 - Senior
- 677. .... Unit 6 - Level 6 - Junior
- 678. .... Unit 6 - Level 6 - Senior

## Special Awards

- Overall Champion Model Rocketry Fly Day  
**Rocky Mountain Light 4-H Club**, Merritt Dupon, Carr
- Champion Unit 1 Junior - Model Rocketry Fly Day  
**Frank & Laurel Kubin**, Windsor
- Champion Unit 1 Senior - Model Rocketry Fly Day  
**Frank & Laurel Kubin**, Windsor
- Champion Unit 2 Junior - Model Rocketry Fly Day  
**Construction Supply House**, Cindy Buckardt, Berthoud
- Champion Unit 2 Senior - Model Rocketry Fly Day  
**High Country Handiworkers 4-H Club**, Cindy Buckardt, Loveland
- Champion Unit 3 Junior - Model Rocketry Fly Day  
**David & Marie Ostermiller**, Platteville
- Champion Unit 3 Senior - Model Rocketry Fly Day  
**Construction Supply House**, Cindy Buckardt, Berthoud
- Champion Unit 4 Junior - Model Rocketry Fly Day  
**Shaffer Custom Excavating**, Mark & Mary Shaffer, Loveland
- Champion Unit 4 Senior - Model Rocketry Fly Day  
**High Country Handiworkers 4-H Club**, Cindy Buckardt, Loveland
- Champion Unit 6 Junior – Model Rocketry Fly Day  
**Construction Supply House**, Cindy Buckardt, Berthoud
- Champion Unit 6 Senior - Model Rocketry Fly Day  
**Hall’s Haven Farm**, Adam & Dani Hall, Wellington

# Robotics

1. In Junk Drawer Units (1 – 3), youth are only allowed to enter a display board exhibit or a stand-alone exhibit, not both.

2. Robotics Platforms is just a fancy way to say robotics kits or robotics materials. Some types of commercial kits or platform include Arduino Kits, EV3, Brushbot, Make, Hexy, Pushbutton Programmable Robotic Kit, Sparky, Cubelets, Robotic Arm Edge, Sparkfun Red Bot, WeDo, Multipl, NXT, TETRIX, CEENBot and VEX.

3. Youth working individually on a robotics platform should enroll in the Platform Units. Youth should advance between units 4 – 6 as they feel they are progressing in their project knowledge.

4. Youth working on a team on a robotics platform should enroll in the Team Robotics Unit. Despite being on a team, the Fair exhibit is meant to be completed and entered by an individual member.

## Unit 1

### Junk Drawer Robotics – Give Robotics A Hand

**Exhibit will consist of the following:**

A. A completed e-Record presented in a sturdy binder/notebook.

B. **For Display Board Exhibits:** One display board which you have made as part of this unit of study. The standardized display board size of 4' x 3' is to be used.

**For Stand-Alone Exhibits:** One article which you have made as part of this unit of study. (Example: marshmallow catapult, robotic arm, robotic gripper, et al.)

### Display Board Exhibits

**Class**

901. ....Give Robotics A Hand – Display Board - Junior  
902. ....Give Robotics A Hand – Display Board - Intermediate  
903. ....Give Robotics A Hand – Display Board– Senior

### Stand-Alone Exhibits

**Class**

904. ....Give Robotics A Hand – Stand-Alone - Junior  
905. ....Give Robotics A Hand – Stand-Alone - Intermediate  
906. ....Give Robotics A Hand – Stand-Alone – Senior

## Unit 2

### Junk Drawer Robotics – Robots On The Move

**Exhibit will consist of the following:**

A. A completed e-Record presented in a sturdy binder/notebook.

B. **For Display Board Exhibits:** One display board which you have made as part of this unit of study. The standardized display board size of 4' x 3' is to be used.

**For Stand-Alone Exhibits:** One article which you have as a part of this unit of study. (Example: clipmobile, can-can robot, gear train, es-car-go, sea hunt, et al.)

## Display Board Exhibits

**Class**

907. ....Robots On The Move – Display Board - Junior  
908. ....Robots On The Move – Display Board - Intermediate  
909. ....Robots On The Move – Display Board – Senior

## Stand-Alone Exhibits

**Class**

910. ....Robots On The Move – Stand-Alone - Junior  
911. ....Robots On The Move – Stand-Alone - Intermediate  
912. ....Robots On The Move – Stand-Alone – Senior

## Unit 3

### Junk Drawer Robotics – Mechatronics

**Exhibit will consist of the following:**

A. A completed e-Record presented in a sturdy binder/notebook.

B. **For Display Board Exhibits:** One display board which you have made as part of this unit of study. The standardized display board size of 4' x 3' is to be used.

**For Stand-Alone Exhibits:** One article which you have as a part of this unit of study. (Example: forward and reverse, wall follower, breadboard, say what? build your robot, et al.)

## Display Board Exhibits

**Class**

913. ....Mechatronics – Display Board - Junior  
914. ....Mechatronics – Display Board - Intermediate  
915. ....Mechatronics – Display Board - Senior

## Stand-Alone Exhibits

**Class**

916. ....Mechatronics – Stand-Alone - Junior  
917. ....Mechatronics – Stand-Alone - Intermediate  
918. ....Mechatronics – Stand-Alone - Senior

## Unit 4

### Robotics Platforms – Beginner

**Exhibit will consist of the following:**

A. A completed e-Record presented in a sturdy binder/notebook.

B. One display board which you have made as part of this unit of study. The standardized display board size of 4' x 3' is to be used.

**Class**

919. ....Platforms – Beginner - Junior  
920. ....Platforms – Beginner - Intermediate  
921. ....Platforms – Beginner - Senior

## Unit 5

### Robotics Platforms – Intermediate

**Exhibit will consist of the following:**

A. A completed e-Record presented in a sturdy binder/notebook.

B. One display board which you have made as part of this unit of study. The standardized display board size of 4' x 3' is to be used.

**Class**

922. ....Platforms – Intermediate - Junior  
923. ....Platforms – Intermediate - Intermediate  
924. ....Platforms – Intermediate - Senior

## Unit 6

### Robotics Platforms – Advanced

Exhibit will consist of the following:

- A. A completed e-Record presented in a sturdy binder/notebook.
- B. One display board which you have made as part of this unit of study. The standardized display board size of 4' x 3' is to be used.

#### Class

- 925. .... Platforms – Advanced - Junior
- 926. .... Platforms – Advanced - Intermediate
- 927. .... Platforms – Advanced - Senior

## Unit 7

### Team Robotics

Exhibit will consist of the following:

- A. A completed e-Record presented in a sturdy binder/notebook.
- B. One display board which you have made as part of this unit of study. The standardized display board size of 4' x 3' is to be used.

#### Class

- 928. .... Team Robotics - Junior
- 929. .... Team Robotics - Intermediate
- 930. .... Team Robotics - Senior

### Special Award

Overall Champion Robotics Exhibit

**High Country Handiworkers 4-H Club**, Cindy Buckardt,  
Loveland

Outstanding Junior Robotics Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Intermediate Robotics Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Senior Robotics Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Small Engines

## Unit 1 Crank It Up

### Exhibit will consist of the following:

A. A Completed project manual (page 4, at least 7 activities completed) and e-Record in a sturdy binder/notebook including appropriate sections in the manual completed and other items such as diagrams, drawings, photographs, or attachments related to activities in the manual.

B. Exhibit may be a display board on any topic from the Small Engines manual **or** a stand-alone item (**but not both**) such as: air and fuel systems, the electrical systems, a diagram of the engine block, etc. You may use diagrams, drawings, and photographs. Label and use captions to make your display as educational as possible. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

### Class

- 1001. .... Crank It Up - Junior
- 1002. .... Crank It Up - Intermediate
- 1003. .... Crank It Up - Senior

## Unit 2 Warm It Up

### Exhibit will consist of the following:

A. A completed project manual (**page 4, at least 7 activities completed**) and e-Record presented in a sturdy binder/notebook including appropriate sections in the manual completed and other items such as diagrams, drawings, photographs, or attachments related to activities in the manual.

B. Exhibit may be a display on any topic from the Small Engines manual **or** a stand-alone item (**but not both**) such as: air and fuel systems, the electrical systems, a diagram of the engine block, etc. You may use diagrams, drawings, and photographs. Label and use captions to make your display as educational as possible. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

### Class

- 1004. .... Warm It Up - Junior
- 1005. .... Warm It Up - Intermediate
- 1006. .... Warm It Up - Senior

## Unit 3 Tune It Up

### Exhibit will consist of the following:

A. A completed project manual (**page 4, at least 7 activities completed**) and e-Record presented in a sturdy binder including appropriate sections in the manual completed and other items such as diagrams, drawings, photographs, or attachments related to activities in the manual.

B Exhibit may be a display board on any topic from the Small Engines manual **or** a stand-alone item (**but not both**) such as: air and fuel systems, the electrical systems, a diagram of the engine block, etc. You may use pictures or any records you kept providing evidence of your accomplishments and what you have learned. Label and use captions to make your display as educational as possible. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

### Class

- 1007. .... Tune It Up - Junior
- 1008. .... Tune It Up - Intermediate
- 1009. .... Tune It Up - Senior

## Unit 4 Advanced Engines

### Exhibit will consist of the following:

A. A completed **Small Engine Unit 4 e-Record** with emphasis on your accomplishments in your story presented in a sturdy binder/notebook. (Self-Determined)

B. Include the following information on the Specific Project Information Page in the e-Record:

1. Written description of your project:
  - a. goals
  - b. plans
  - c. accomplishments
  - d. evaluation

C. Exhibit may be a display board on any topic related to Engines **or** a stand-alone item (**but not both**) such as: air and fuel systems, the electrical systems, a diagram of the engine block, etc. You may use diagrams, drawings, charts, and photographs. Label and use captions to make your display as educational as possible. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

### Class

- 1010. .... Advanced Small Engines - Junior
- 1011. .... Advanced Small Engines - Intermediate
- 1012. .... Advanced Small Engines - Senior

**Note: This unit can be used for any type of engines (tractor, car, etc.)**

## Special Awards

- Overall Champion Small Engines Exhibit
  - Phil & Janet Hein**, Johnstown
- Outstanding Junior Small Engines Record Book
  - Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins
- Outstanding Intermediate Small Engines Record Book
  - Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins
- Outstanding Senior Small Engines Record Book
  - Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Natural Resources

## Entomology

Superintendent– Susan Epperson

### Note: Entomology Workbook Required

Although the manuals have changed, requirements are still the same for the 2020 – 2021 4-H year. Recommended Level is associated with the existing Unit numbers, which have also been adjusted in the workbook.

Exhibits in Entomology are limited to insect specimens only.

1. Acceptable sizes of handmade Entomology Display Boxes taken from the manual and kit:
  - 12"W x 16"L x 3" Deep
  - 12"W x 18"L x 3 ½" Deep
  - 18"W x 24"L x 3 ½" Deep
2. Glass tops on entomology display cases should slide to the top or side of the case to prevent them from slipping out and breaking when placed on display.
3. Commercially available display cases are acceptable.
4. Regular insect pins are required in all units.
5. Older members (Intermediate/Senior) may start with Level 1: Unit 2.
6. Each year 4-H members build on their collection by adding new insects as required for that particular unit. Refer to the exhibit requirements for the number of insects to collect for that unit.
7. On Units 2 through 6, records must include date and location where insects were collected. Place this information on labels attached to insect pins.

### Level 1: Unit 1

#### Let's Learn About Insects

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Insect Collection: display no fewer than 10 and no more than 35 adult insects in at least 3 different correctly labeled orders. Boxes for display should be approximately 12" x 16" x 3".

Class

1101. ....Let's Learn About Insects - Junior  
1102. .... Let's Learn About Insects - Intermediate  
1103. .... Let's Learn About Insects - Senior

### Level 1: Unit 2

#### Learn More About Insects

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Insect collections: display no fewer than 25 and no more than 75 adult insects in at least 6 different orders. Records must include date and location where insects were collected. Place this information on

labels attached to pins. Standard-sized display boxes with removable glass covers are required.

Class

1104. .... Learn More About Insects - Junior  
1105. .... Learn More About Insects - Intermediate  
1106. .... Learn More About Insects - Senior

### Level 1: Unit 3

#### Insect Habits and Controls

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Insect collection: display no fewer than 75 and no more than 150 insects including a representative from at least 9 different orders, correctly labeled (one order developed in water). Include a special collection of 8 different insects, as stated in Unit 3 Workbook. Records must include data and location where insects were collected. Place this information on labels attached to pins. Standard-sized display boxes with removable glass covers are required.

Class

1107. .... Insect Habits and Controls - Junior  
1108. .... Insect Habits and Controls - Intermediate  
1109. .... Insect Habits and Controls - Senior

### Level 2: Unit 4

#### Insect Identification and Community Projects

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Insect collection: display no fewer than 100 and no more than 250 insects in 10 different, correctly labeled orders. Records must include date and location where insects were collected. Place this information on labels attached to pins. Standard-sized display boxes with removable glass covers are required.

Class

1110. .... Insect Identification and Community Projects - Junior  
1111. .... Insect Identification and Community Projects - Intermediate  
1112. .... Insect Identification and Community Projects - Senior

### Level 3: Unit 5

#### Immature Insects and Life Stages

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Display your regular insect collection.
- C. Display a collection of at least 10 larvae or immature insects in vials of rubbing alcohol, or similar preservation.
- D. Display a special collection that is different from the one in Unit 3, including at least 10 insects. Records must include data and location where insects were collected. Place this information on labels attached to pins.

Class

1113. .... Immature Insects and Life Stages - Junior  
1114. .... Immature Insects and Life Stages - Intermediate  
1115. .... Immature Insects and Life Stages - Senior

**Level 3: Unit 6**  
**Exploring With Insects**

**Exhibit will consist of the following:**

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
  
- B. Report on at least three special activities and include them in the e-Record before the story.
  
- C. Insect collection: display no fewer than 50 insects from a single insect order with no more than 3 specimens of the same insect. Records must include data and location where insects were collected. Place this information on labels attached to pins. Standard-sized display boxes with removable glass covers are required.

**Class**

- 1116. .... Exploring With Insects - Junior
- 1117. .... Exploring With Insects - Intermediate
- 1118. .... Exploring With Insects - Senior

**Level 3: Unit 7**  
**Exploring with Insects – Advanced**

**Exhibit will consist of the following:**

- A. Completed e-Record with emphasis on your accomplishments in your story, presented in a sturdy binder/notebook.
  
- B. A display board representing some phase of special project work. This could include a chart or special equipment used or developed. The standardized display board size of 4' x 3' is to be used. No additional items may be included in front of display board.

**Class**

- 1119. .... Exploring With Insects – Advanced - Junior
- 1120. .... Exploring With Insects – Advanced - Intermediate
- 1121. .... Exploring With Insects – Advanced - Senior

**Special Awards**

- Overall Champion Entomology Exhibit  
**Hecker Sports & Regenerative Medicine**, Dr. Thomas & Lisa  
Hecker Fort Collins
- Overall Champion Entomology Exhibit  
**Alan & Susan Epperson Family**, Fort Collins
- Overall Reserve Champion Entomology Exhibit  
**Alan & Susan Epperson Family**, Fort Collins
- Outstanding Junior Entomology Record Book  
**Alan & Susan Epperson Family**, Fort Collins
- Outstanding Intermediate Entomology Record Book  
**Alan & Susan Epperson Family**, Fort Collins
- Outstanding Senior Entomology Record Book  
**Alan & Susan Epperson Family**, Fort Collins

# Outdoor Adventures

## Exhibit Requirements

All exhibits will consist of the following:

A. A completed project manual of at least 6 chapter activities and at least 6 Reach the Peak activities completed each year and the e-Record presented in a sturdy binder/notebook including these items: appropriate sections in manual completed, e-Record and other items or attachments related to the activities in the manual. List the day, month, and year for the date of completed activities on page 4.

B. A display board illustrating a topic investigated during the project year. You may use diagrams, drawings, charts, and photographs. Label and use captions to make your display as educational as possible. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

## Unit 1 Hiking Trails

Class

1201. .... Unit 1 - Hiking Trails - Junior  
1202. .... Unit 1 - Hiking Trails - Intermediate  
1203. .... Unit 1 - Hiking Trails – Senior

## Unit 2 Camping Adventures

Class

1204. .... Unit 2 – Camping Adventures – Junior  
1205. .... Unit 2 – Camping Adventures – Intermediate  
1206. .... Unit 2 – Camping Adventures – Senior

## Unit 3 Backpacking Expeditions

Class

1207. .... Unit 3 – Backpacking Expeditions - Junior  
1208. .... Unit 3 – Backpacking Expeditions - Intermediate  
1209. .... Unit 3 – Backpacking Expeditions - Senior

## Special Award

Overall Champion Outdoor Adventures Exhibit

**Larimer County 4-H Junior Leader Club**, Amelia Macy,  
President, Timnath

Outstanding Junior Outdoor Adventures Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Intermediate Outdoor Adventures Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Senior Outdoor Adventures Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Shooting Sports

Superintendents – Cory Bensley, Rod Bergstrom,  
Mike Conley, Jackie Easthouse, Jim Easthouse, Scott Gillespie,  
Justin Mick, Ian Webb, Samantha Webb

## Project Exhibit Rules/Requirements

1. A member may only exhibit in one skill area/discipline of the shooting sports project. Therefore, youth enrolled in multiple shooting sports disciplines should choose only one skill area to complete a display board/stand-alone item and record book in. The display boards' topics should stay in close relationship with the discipline chosen. Please do not use topics outside the scope of your 4-H project. (Example; .22 Rifle Project – should not use the topic of different types of military machine guns.)

2. Completed e-Record that contains the inventory sheet and the discipline log record for all disciplines the exhibitor participated in, in a sturdy binder/notebook.

3. Display may be a display board or a stand-alone display. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board. No display boards or decorative items are allowed in the Stand-Alone classes.

4. All Stand Alone Exhibits are requested to attach a page explaining:

- A. What the project is?
- B. How is it used?
- C. How was it made?

Please use a large enough font or handwriting large enough that an audience can read it from a distance when displayed.

5. No live ammo, tipped arrows, (including field points, broadheads), knives, functional or nonfunctional firearms or bows will be allowed as an exhibit. Cardboard, paper cutouts or décor resembling firearms or bows are allowed for display purposes in the display or stand-alone classes.

6. Exhibits showing safety violations will result in a lower placing ribbon level. Do not use the word weapon when creating your display. Make sure that there are no safety violations in your display. (Example: no earplugs visible, member not wearing safety glasses on a photo of a youth firing his/her firearm.) Do not use pictures of primarily tactical in design firearms in your display, (example: AR platform or military type firearms.

7. In order to represent Larimer County on a Shooting Sports Team at State Fair, the 4-H member MUST exhibit a display board or stand-alone item and record book at the Larimer County Fair and earn at least a red ribbon placing.

8. Display items illustrating something learned in the project this year. Exhibit may be a display board or a stand-alone item, such as gun stocks, decoys, etc. Display items are to be entered in specific discipline that the exhibit relates to (i.e., .22, air rifle, shotgun, etc.).

9. Stand Alone Exhibits chosen for State Fair: There is a maximum size of 3' in width and depth and 7' in height. The item must be stable when standing in order to be displayed. Stand Alone Exhibits chosen for State Fair, heavier than 35 lbs. will be the responsibility of the exhibitor to take to the State Fair.

10. A new class has been added. This is a decorative item class. Items to be exhibited in this class are items that are used to

decorate a room, building, etc. This item would be considered a decorative item (board with antlers, using feathers to make an item, jewelry, etc.)

## Display Board Exhibits

### Archery

#### Class

- 1301. .... Archery - Display Board - Junior
- 1302. .... Archery - Display Board - Intermediate
- 1303. .... Archery - Display Board - Senior

### Air Rifle

#### Class

- 1304. .... Air Rifle - Display Board - Junior
- 1305. .... Air Rifle - Display Board - Intermediate
- 1306. .... Air Rifle - Display Board – Senior

### Shotgun

#### Class

- 1307. .... Shotgun – Display Board - Junior
- 1308. .... Shotgun - Display Board - Intermediate
- 1309. .... Shotgun – Display Board – Senior

### .22 Rifle

#### Class

- 1310. .... .22 Rifle - Display Board - Junior
- 1311. .... .22 Rifle - Display Board - Intermediate
- 1312. .... .22 Rifle - Display Board – Senior

### .22 Pistol

#### Class

- 1313. .... .22 Pistol - Display Board - Junior
- 1314. .... .22 Pistol - Display Board - Intermediate
- 1315. .... .22 Pistol - Display Board – Senior

## Black Powder Muzzleloading

#### Class

- 1316. .... Muzzleloading - Display Board - Junior
- 1317. .... Muzzleloading - Display Board - Intermediate
- 1318. .... Muzzleloading - Display Board - Senior

### Air Pistol

#### Class

- 1319. .... Air Pistol - Display Board - Junior
- 1320. .... Air Pistol - Display Board - Intermediate
- 1321. .... Air Pistol - Display Board – Senior

## Western Heritage

#### Class

- 1322. .... Western Heritage - Display Board - Junior
- 1323. .... Western Heritage - Display Board - Intermediate
- 1324. .... Western Heritage - Display Board – Senior

## Outdoor Skills

#### Class

- 1325. .... Outdoor Skills - Display Board - Junior
- 1326. .... Outdoor Skills - Display Board - Intermediate
- 1327. .... Outdoor Skills - Display Board - Senior

## Stand Alone Exhibits

These classes are for stand-alone items only. No display boards or decorative items are allowed in the Stand-Alone classes. Please check out rule #4 on page 21.

### Archery

- Class  
1328. .... Archery – Stand Alone - Junior  
1329. .... Archery – Stand Alone - Intermediate  
1330. .... Archery – Stand Alone - Senior

### Air Rifle

- Class  
1331. .... Air Rifle – Stand Alone - Junior  
1332. .... Air Rifle – Stand Alone - Intermediate  
1333. .... Air Rifle – Stand Alone – Senior

### Shotgun

- Class  
1334. .... Shotgun – Stand Alone - Junior  
1335. .... Shotgun – Stand Alone - Intermediate  
1336. .... Shotgun – Stand Alone - Senior

### Air Pistol

- Class  
1337. .... Air Pistol – Stand Alone - Junior  
1338. .... Air Pistol – Stand Alone - Intermediate  
1339. .... Air Pistol – Stand Alone - Senior

### .22 Rifle

- Class  
1340. .... .22 Rifle – Stand Alone - Junior  
1341. .... .22 Rifle – Stand Alone - Intermediate  
1342. .... .22 Rifle – Stand Alone – Senior

### .22 Pistol

- Class  
1343. .... .22 Pistol – Stand Alone - Junior  
1344. .... .22 Pistol – Stand Alone - Intermediate  
1345. .... .22 Pistol – Stand Alone – Senior

### Western Heritage

- Class  
1346. .... Western Heritage – Stand Alone - Junior  
1347. .... Western Heritage – Stand Alone - Intermediate  
1348. .... Western Heritage – Stand Alone – Senior

### Outdoor Skills

- Class  
1349. .... Outdoor Skills – Stand Alone - Junior  
1350. .... Outdoor Skills – Stand Alone - Intermediate  
1351. .... Outdoor Skills – Stand Alone - Senior

### Black Powder Muzzleloading

- Class  
1352. .... Muzzleloading – Stand Alone - Junior  
1353. .... Muzzleloading – Stand Alone - Intermediate  
1354. .... Muzzleloading – Stand Alone - Senior

## Decorative Exhibit Items

Decorative items are items that are made from materials from the different disciplines but are for aesthetic value in decorating a room. All items from all the disciplines that are decorative will be in these classes.

### Class

1355. .... Decorative Item - Junior  
1356. .... Decorative Item - Intermediate  
1357. .... Decorative Item - Senior

## Special Awards

- Overall Champion Junior Shooting Sports Exhibit  
**A. James & Barbara Parfet**, Fort Collins  
Overall Champion Intermediate Shooting Sports Exhibit  
**Kelley Bows**, Tom & Joyce Kelley, Wellington  
Overall Champion Senior Shooting Sports Exhibit  
**Rocky Mountain Light 4-H Club**, Merritt Dupon, Carr  
Outstanding Junior Shooting Sports Record Book  
**Randy Burbach**, Loveland  
Outstanding Intermediate Shooting Sports Record Book  
**Randy Burbach**, Loveland  
Outstanding Senior Shooting Sports Record Book  
**Randy Burbach**, Loveland  
Perseverance Award  
**Michael & Tracy Sandmann**, Nunn  
Best STEM Based Junior Shooting Sports Exhibit  
**The Webb Family**, Ian & Samantha Webb, Severance  
Best STEM Based Intermediate Shooting Sports Exhibit  
**The Webb Family**, Ian & Samantha Webb, Severance  
Best STEM Based Senior Shooting Sports Exhibit  
**The Webb Family**, Ian & Samantha Webb, Severance

# Sportfishing

## Exhibit Requirements

All exhibits will consist of the following:

A. Completed Sportfishing e-Record in a sturdy binder/notebook including the information requested on the Project Information page, and the Catch and Release information and the Fishing Journal information.

B. Exhibit may be a display board on any topic in the project manual specific to the skill level **or** a stand-alone exhibit such as a hand-wrapped rod or hand-made lures. You may not have a display board and a stand-alone – you must choose one. **Educational materials shall not extend beyond the edges of display boards.** The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

C. Hooks must be removed from lures and jigs when these items are used in an exhibit. The exceptions are artificial flies, which may be exhibited with functional hooks, but the hook points must be imbedded in material (i.e., rubber, dense cork, etc.) that will secure the flies and offer safety to the judges and other show officials. **Be sure to remove barbs and any other sharp points.**

D. No knives to be displayed.

### Unit 1 Take the Bait

Class

1401. .... Unit 1 – Take the Bait – Junior

1402. .... Unit 1 - Take the Bait – Intermediate

1403. .... Unit 1 – Take the Bait – Senior

### Unit 2 Reel in the Fun

Class

1404. .... Unit 2 – Reel in the Fun – Junior

1405. .... Unit 2 – Reel in the Fun – Intermediate

1406. .... Unit 2 – Reel in the Fun – Senior

### Unit 3 Cast Into the Future

Class

1407. .... Unit 3 – Cast Into the Future – Junior

1408. .... Unit 3 – Cast Into the Future – Intermediate

1409. .... Unit 3 – Cast Into the Future – Senior

## Sportfishing Stand Alone Classes

Stand Alone Exhibits chosen for State Fair: There is a maximum size of 3' in width and depth and 7' in height. The item must be stable when standing in order to be displayed. Stand Alone Exhibits chosen for State Fair, heavier than 35 lbs. will be the responsibility of the family to take to the State Fair.

**These classes are for Stand Alone items only.  
No display boards are allowed in these classes.**

### Unit 1 Take the Bait

Class

1410. .... Unit 1 - Sportfishing Stand Alone – Junior

1411. .... Unit 1 - Sportfishing Stand Alone – Intermediate

1412. .... Unit 1 - Sportfishing Stand Alone – Senior

### Unit 2 Reel in the Fun

Class

1413. .... Unit 2 - Sportfishing Stand Alone – Junior

1414. .... Unit 2 - Sportfishing Stand Alone – Intermediate

1415. .... Unit 2 - Sportfishing Stand Alone – Junior

### Unit 3 Cast Into the Future

Class

1416. .... Unit 3 - Sportfishing Stand Alone – Junior

1417. .... Unit 3 - Sportfishing Stand Alone – Intermediate

1418. .... Unit 3 - Sportfishing Stand Alone – Senior

## Special Awards

Overall Champion Sportfishing Exhibit

**Construction Supply House**, Cindy Buckardt, Berthoud

Outstanding Junior Sportfishing Record Book

**Scott & Julie Melbye**, Loveland

Outstanding Intermediate Sportfishing Record Book

**Scott & Julie**, Loveland

Outstanding Senior Sportfishing Record Book

**Scott & Julie Melbye**, Loveland

# Wildlife Conservation

## Exhibit Requirements

All exhibits will consist of the following:

- A. Completed Wildlife e-Record in a sturdy binder/notebook.
- B. Include the following information on the Wildlife page. Show what you did and learned. Show evidence of your personal field experiences, study, or observations.
- C. A display board **showing educational information about a topic of interest related to wildlife**. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board. Possible topics could include but not restricted to: species found in Colorado, wildlife habitats, role of predators, types of bird feed, or urban wildlife challenges.
- D. **OR**, instead of a display board, exhibit may be a stand-alone item, such as a wildlife diorama, scrapbook with wildlife information, pictures and news, a bird feeder or bath, or wildlife track molds. Display items should illustrate something learned in the project this year.

## Unit 1

### The Worth of Wild Roots

#### Class

- 1501. .... Unit 1 – The Worth of Wild Roots – Junior
- 1502. .... Unit 1 – The Worth of Wild Roots – Intermediate
- 1503. .... Unit 1 – The Worth of Wild Roots – Senior

## Unit 2

### Living Wild in an Ecosystem

#### Class

- 1504. .... Unit 2 – Living Wild in an Ecosystem – Junior
- 1505. .... Unit 2 – Living Wild in an Ecosystem – Intermediate
- 1506. .... Unit 2 – Living Wild in an Ecosystem – Senior

## Unit 3

### Managing in a World

#### Class

- 1507. .... Unit 3 – Managing in a World – Junior
- 1508. .... Unit 3 – Managing in a World – Intermediate
- 1509. .... Unit 3 – Managing in a World – Senior

## Stand-Alone Items

(For all Units)

#### Class

- 1510. .... Stand-Alone Item – Junior
- 1511. .... Stand-Alone Item – Intermediate
- 1512. .... Stand-Alone Item – Senior

## Special Awards

Overall Champion Wildlife Exhibit

**Fort Collins Conservation District**, Laura Knox, Fort Collins

Outstanding Junior Wildlife Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Intermediate Wildlife Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Senior Wildlife Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Communication, Arts & Leisure Sciences

## Global Citizenship

### No Display Boards

#### Unit 1

##### Study of Another Country

###### Exhibit will consist of the following:

A. A sturdy three-ringed notebook including a completed e-Record with the following additional information:

Section 1: Create an information sheet that explains the selected study topic and list the topic(s) studied (pages 6 – 9).

Section 2: Describe any demonstrations or public speaking experiences you had associated with global citizenship. Please be specific about audience, topic, visual aids, etc.

Section 3: Include a short story explaining what you learned from this study.

Section 4: List the resources you used throughout your project.

###### Class

**1801.** ..... Unit 1 – Study of Another Country- Junior

**1802.** ..... Unit 1 – Study of Another Country - Intermediate

**1803.** ..... Unit 1 – Study of Another Country - Senior

#### Unit 2

##### Host a Delegate from Another Country

###### Exhibit will consist of the following:

A. A sturdy three-ring notebook including a completed e-Record with the following additional information:

1. Preparation for your Exchangee’s Arrival – page 3 of manual.
2. The Arrival – pages 3 & 4 of manual
3. During the Stay – page 4 of manual
4. After Departure – page 4 of manual
5. Resources – page 5 of manual

B. Provide information on at least one demonstration or public speaking that you gave on your Global Citizenship project. Please record this information on the Demonstration page in the e-Record. Be specific on audience, topic, visual aids, etc.

**1804.** .....Unit 2 – Host a Delegate - Junior

**1805.** ..... Unit 2 – Host a Delegate - Intermediate

**1806.** ..... Unit 2 – Host a Delegate - Senior

#### Unit 3

##### Youth Counselor For Inbound International Delegation

###### Exhibit will consist of the following:

A. Serve as a teen counselor at a standard international-program event for incoming delegates from another country or culture.

**NOTE:** this unit must be coordinated with the 4-H International Programs Coordinator in the Colorado State 4-H Office.

B. A sturdy three-ringed notebook, including a completed e-Record with the following information:

1. The Arrival – page 5 of manual
2. During the Stay – page 5 of manual
3. After Departure – page of manual
4. Resources – page 5 of manual

C. Provide information on at least one demonstration or public speaking that you gave on global citizenship project. Please record this information on the Demonstration page in the e-Record. Be specific on audience, topic, visual aids, etc.

###### Class

**1807.** ..... Unit 3 – Youth Counselor - Intermediate

**1808.** .....Unit 3 – Youth Counselor - Senior

#### Unit 4

##### Exchange Delegate to Another Country

###### Exhibit will consist of the following:

A. A sturdy three-ringed notebook including a completed e-Record with the following information:

1. Before Departure – pages 5 & 6 of manual
2. During the Stay – page 6 of manual
3. In-depth Observation – page 6 of manual
4. Return to the United State – page 6 of manual
5. Resources – page 6 of manual

B. Provide information on at least one demonstration or public speaking that you gave on your global citizenship project. Please record this information on the Demonstration page in the e-Record. Be specific on audience, topic, visual aids, etc.

###### Class

**1809.** ..... Unit 4 – Exchange Delegate - Intermediate

**1810.** ..... Unit 4 – Exchange Delegate - Senior

#### Special Awards

- Overall Champion Global Citizenship Exhibit  
**Larimer County 4-H Junior Leader Club**, Amelia Macy, President, Timnath
- Outstanding Global Citizenship Exhibit  
**Dwayne & Barbara Hummel**, Berthoud
- Outstanding Junior Global Citizenship Record Book  
**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins
- Outstanding Intermediate Global Citizenship Record Book  
**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins
- Outstanding Senior Global Citizenship Record Book  
**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Leathercraft

## Project Exhibit Rules for All Units:

1. Indicate in e-record whether articles are made from kit or if self-cut and designed by the member.
2. A set means a number of things of the same kind that belong, or are used together, (i.e., six matching coasters, belt, and buckle with matching designs, etc.)
3. Advanced leathercraft members Units 4 – 10 may exhibit in more than one of the classes, provided the member is enrolled in and has completed the requirements of the unit.
4. Unit 8 is now advanced creative stamping. It is recommended that 1<sup>st</sup> year Juniors take Unit 1 Introduction to Stamping before taking Unit 8.

### 5. Definitions:

**Carving** – is where you cut into the leather (usually swivel knife) as part of the design you are tooling.

**Stamping/Tooling** – is where you use impressions made from tools to form a design.

**Cord** – is round and waxed thread.

**Lace** – is flat with a shiny side and rough side.

**Background Dyeing** – dyeing a solid color to the area tooled with the background.

**Solid Color Dyeing** – is where you dye the whole project the same color. For example, you tool a belt and then dye it all black, or you make a book cover and dye it all one color.

**Color Shading** – is where you use shades of color to make the design look more realistic. For example, you can use darker and lighter shades of a color on a flower you have tooled to make it look realistic, or an animal or figure any kind.

**Staining/Antiquing** – using an antique finish like saddle tan – apply and remove/rub on and wipe off.

**Clear Finish** – is a finish that has no color in it. For example, oil (no color added), leather finish spray or wipe on that has no color mixed in it.

## Unit 1

### Introduction to Leathercraft & Creative Stamping

#### Exhibit will consist of the following:

- A. Completed e-record in a sturdy binder/notebook.
- B. Exhibit three (3) articles. Place the exhibit items on a board 12” x 18” x 1/8” or 1/4” (preferably pegboard) to which items are attached by means of lacing or thread. One each from categories below:
  1. One Article or one set of articles on flat leather with no lacing or stitching. Examples: bookmark, wrist bracelet, set of coasters.
  2. One article with at least two pieces of leather that are sewed together with lace using a whip stitch or running stitch. Pre-cut kits or self-cut leather may be used. Examples: key case or knife sheath.
  3. One article with at least two pieces of leather that are sewed together with cord stitching. Use pre-cut kits with pre-punched holes. Example: coin purse.
- C. Apply a **clear** finish to complete your article.

**Note:** No carving, solid color dyeing, color shading and/or antiquing will be permitted.

#### Class

2001. .... Unit 1 – Intro to Leathercraft - Junior  
2002. .... Unit 1 – Intro to Leathercraft - Intermediate  
2003. .... Unit 1 – Intro to Leathercraft - Senior

## Unit 2

### Beginning Leather Carving

#### Exhibit will consist of the following:

- A. Completed e-Record in a sturdy binder/notebook.
- B. Exhibit board 12" x 18" x 1/8" or 1/4" (preferably pegboard) to which items are attached by means of lacing or thread:
  1. Three samples with labels showing:
    - a. Use of swivel knife and camouflage tool.
    - b. Steps shown in sample as well as use of pear shader, beveller and veiner.
    - c. Steps shown in samples a and b as well as use of seeder, backgrounder and decorative cuts. Clear leather finish applied to sample c (optional for samples a and b). **Note:** **The labels should reflect the tools used for each sample.**
  2. Two completed articles using tools and skills studied in Unit 2, which include lacing (at least one with double loop lacing).

**Note:** No pictorial carving (framed pictures) or figure carving (realistic animal and human figures). No staining/antiquing, solid color dyeing or shading is permitted.

#### Class

2004. .... Unit 2 – Beginning Leather Carving - Junior  
2005. .... Unit 2 – Beginning Leather Carving - Intermediate  
2006. .... Unit 2 – Beginning Leather Carving - Senior

## Unit 3

### Intermediate Leather Carving

#### Exhibit will consist of the following:

- A. Completed e-Record in a sturdy binder/notebook.
- B. One completed carved article or set that includes at least one of the major skills: carved conventional design, inverted carving techniques, simple molding and shaping or hand stitching. **Only clear finish and if laced the double loopstitch is required.**

**Note:** No pictorial carving (framed pictures) or figure carving (realistic animal and human figures). No solid color dyeing, antiquing or shading will be permitted.

#### Class

2007. .... Unit 3 – Intermediate Leather Carving - Junior  
2008. .... Unit 3- Intermediate Leather Carving - Intermediate  
2009. .... Unit 3 – Intermediate Leather Carving - Senior

## Advanced Units 4 – 10

### Unit 4

#### Advanced Leather Carving

##### Exhibit will consist of the following:

- A. Completed e-Record in a sturdy binder/notebook.
- B. Any article or set, other than a picture, of either conventional or realistic design, demonstrating one or more of the major skills learned in this unit: figure carving, embossing, or filigree work. Background dyeing, antiquing and two-tone finishing is optional in this unit.  
**Note:** Solid color dyeing and color shading will not be permitted in Unit 4.

##### Class

2010. .... Unit 4 – Advanced Leather Carving - Junior  
2011. .... Unit 4 – Advanced Leather Carving - Intermediate  
2012. .... Unit 4 – Advanced Leather Carving - Senior

### Unit 5

#### Coloring and Shading

##### Exhibit will consist of the following:

- A. Completed e-Record in a sturdy binder/notebook.
- B. One completed article or matching set, other than a picture, which demonstrates advanced carving skills, and which is colored by solid-color dyeing, block dyeing or color shading, or antiquing. The design can be either conventional or realistic carving.

##### Class

2013. .... Unit 5 – Coloring & Shading - Junior  
2014. .... Unit 5 – Coloring & Shading - Intermediate  
2015. .... Unit 5 – Coloring & Shading - Senior

**Note:** All dyeing, shading, and antiquing are optional after Unit 5.

### Unit 6

#### Pictorial Carving

##### Exhibit will consist of the following:

- A. Completed e-Record in a sturdy binder/notebook.
- B. One framed or mounted carved leather picture or a matching set, suitable for wall hanging. The article may be left natural color, or it may be stained or colored according to any of the methods taught in previous units.

##### Class

2016. .... Unit 6 – Pictorial Carving - Junior  
2017. .... Unit 6 – Pictorial Carving - Intermediate  
2018. .... Unit 6 – Pictorial Carving - Senior

### Unit 7

#### Making and Rebuilding Saddles

##### Exhibit will consist of the following:

- A. Completed e-Record in a sturdy binder.
- B. One completed saddle. The leather may be either tooled or untooled and may be finished in any suitable fashion.

##### Class

2019. .... Unit 7 – Making & Rebuilding Saddles - Junior  
2020. .... Unit 7 – Making & Rebuilding Saddles - Intermediate  
2021. .... Unit 7 – Making & Rebuilding Saddles - Senior

### Unit 8

#### Advanced Creative Stamping

##### Exhibit will consist of the following:

- A. Completed e-Record in a sturdy binder/notebook.
- B. One completed article or matching set using creative stamping.

##### Class

2022. .... Unit 8 – Advanced Creative Stamping - Junior  
2023. .... Unit 8 – Advanced Creative Stamping - Intermediate  
2024. .... Unit 8 – Advanced Creative Stamping - Senior

### Unit 9

#### Braiding and Untooled

##### Exhibit will consist of the following:

- A. Completed e-Record in a sturdy binder/notebook.
- B. One article or matching set illustrating construction by lacing, braiding, expanding, sculpting, untooled leather construction or leather art technique. Exhibit must use non-tooled and non-sewn leather working techniques. (Minimum tooling required for effect is acceptable.)

##### Class

2025. .... Unit 9 – Braiding & Untooled - Junior  
2026. .... Unit 9 – Braiding & Untooled - Intermediate  
2027. .... Unit 9 – Braiding & Untooled - Senior

### Unit 10

#### Sewing Leather

##### Exhibit will consist of the following:

- A. Completed e-Record in a sturdy binder/notebook.
- B. One completed article or garment made by sewing leather.

##### Class

2028. .... Unit 10 – Sewing Leather - Junior  
2029. .... Unit 10 – Sewing Leather - Intermediate  
2030. .... Unit 10 – Sewing Leather - Senior

### Special Awards

- Overall Champion Leathercraft Exhibit  
**Josh Lasich Memorial – Tom & Marilyn Lasich**, Fort Collins  
Overall Reserve Champion Leathercraft Exhibit  
**Miller Ranch**, Bryant & Patty Miller, Wellington  
Outstanding Junior Leathercraft Record Book  
**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins  
Outstanding Intermediate Leathercraft Record Book  
**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins  
Outstanding Senior Leathercraft Record Book  
**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Photography

Superintendent – Caree Rinebarger

1. For all units, submit photo material for the current unit being entered. Do not submit previous photos or records.
2. In Levels 1 – 3 pictures can either be mounted on the journal pages or on card stock. Use the tips on page 73 of the manuals for mounting the pictures.
3. Display photo may be up to 5” x 7” in size. The photo **must** be mounted on a mat and suitable for hanging without additional frame. No other mounted materials (i.e., glass, wood, plastic, metal, etc.) can be used.
4. All photos in the notebook or manual should be 4” x 6” unless otherwise indicated in the manual. If the photos do not fit on the page, add a page for the photo.
5. **Display photo will be used to display at State Fair so be careful when picking your best photo. Notebooks will not be displayed at State Fair, if selected.**
6. The maximum size for the matted only picture is no larger than 8” x 10” (no frame or glass).
7. Binders/notebooks: Use a hardback, three-ring notebook up to 3” in size for all units. No posters or oversized books. Do not use plastic covers on any pages in any unit. All materials must fit within the notebook. Additional pages can be added as needed to exhibit your photos.
8. For photo exhibits in Levels 1 – 3 follow the tips on page 73 in the manuals. Photos can be mounted on the journal pages or on cardstock. Label format for Units 1 – 4:  
**Camera Used** \_\_\_\_\_  
**Journal Page #** \_\_\_\_\_  
(if using cardstock to mount pictures)  
**Photo #** \_\_\_\_\_  
(left to right and top to bottom)  
**Subject** \_\_\_\_\_  
**Date Photo Taken** \_\_\_\_\_
9. Label Format for Unit 6  
Photo # or Media Used \_\_\_\_\_  
Subject \_\_\_\_\_  
Date Photo Taken or Date of Film \_\_\_\_\_  
Notes: \_\_\_\_\_

## Matting Photos Guidelines

**Matting adds dimension to compliment and accent the photo. Matting will help focus attention on the photos and add visual interest along with balance to a layout.**

**Matting a photo means to put a border around it. Choose a color that brings out another color in the photo but is different than the background color. Light matte colors will help lighten a dark photo and a dark mat color will make the colors look deeper and richer.**

**For county and state fair display, please select a photo that is 5” x 7” in size that is one of the photo techniques you are using within your unit (read specific requirements for each unit). The maximum size for the matted photo will be 8” x 10”.**

**These photos will be hung for display. Please attach string or some type of hanging mechanism for the photo to hang. Please do not put the phot in a frame.**

**Please attach to the back of your photo the following information:**

- Member Name
- Member County
- Subject
- Date Photo Taken
- Notes

## Unit 1

### Photography Basics – First Year

**Exhibit will consist of the following:**

**A. Completed e-Record. Include the following in your story: what camera you used this year (brand name, film size, etc.), how you stored your pictures and why you picked your Display Photo. (Also include photos of you working on your project in the e-Record photo page.)**

**B. Completed Photo Journal/Binder. See Photography rule #8 for labeling instructions.**

**C. Best Photo – 5” x 7” matted and ready to hang (no glass or frame).**

**D. You will include the following photos (total of 27 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.**

1. Activity 1 – 2 photos
  - a. 1 zoomed in and 1 zoomed out
2. Activity 2 – 4 photos:
  - a. 2 landscape view – 1 photo not using a tripod and 1 photo using a tripod
  - b. 2 portrait view – 1 photo using a tripod and 1 photo not using a tripod
3. Activity 3 – 6 photos:
  - a. 3 photos taken outdoors – 1 at noon, 1 at 4:00 p.m. and 1 at 8:00 p.m.
  - b. 3 photos taken indoors - 1 at noon, 1 at 4:00 p.m. and 1 at 8:00 p.m.

**Note: The goal of this activity should be learning how to use light effectively to capture the subject using correct composition.**
4. Activity 4 – 3 photos:
  - a. 1 photo with an outdoor shadow
  - b. 1 human shadow pose
  - c. 1 large shadow of choice
5. Activity 5 – 4 photos:
  - a. 4 photos using the same object of choice, captured with different directions of light; using flashlight or similar to create lighting.
    - i. Object with front lighting
    - ii. Object with side lighting
    - iii. Object with back lighting
    - iv. Object with top lighting
6. Activity 6 – 2 photos:
  - a. Choose from options 1, 2, or 3 in the manual and post one photo with flash and one without.

7. Activity 7 – 3 photos (can be same subject):
  - a. 1 landscape photo representing use of background

- b. 1 landscape photo representing use of middle-ground
  - c. 1 landscape photo representing use of foreground
- Note: each photo should have an obvious focal point using the above to create a photo that compliments your subject.

1. Activity 8 – 3 photos:

- a. 1 photo of friend with long or body shot
- b. 1 photo of friend with head shot
- c. 1 photo of object with close up

Note: These photos should demonstrate the correct use of zoom or moving closer or further to the subject to achieve the correct composition.

**Class**

2101. ....Unit – 1 – Photography Basics – First Year – Junior

2102. .... Unit 1 – Photography Basics – First Year – Intermediate

2103. ....Unit 1 –Photography Basics – First Year – Senior

## Unit 1

### Photography Basics – Second Year

Exhibit will consist of the following:

A. Completed e-Record. Include the following in your story: what camera you used this year (brand name, etc.), how you stored your pictures and why you picked your Display Photo. (Also include photos of you working on your project in the e-Record photo page.)

B. Completed Photo Journal/Binder. See Photography rule #8 for labeling instructions.

C. Best Photo – 5” x 7” matted and ready to hang (no glass or frame).

D. You will include the following photos (total of 25 – 27 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.

1. Activity 9 – 4 photos

- a. 1 photo with clutter (more than 3 items other than focal point)
- b. 2 photos uncluttered – use same focal point for 2 pictures (i.e., focal point tree – cluttered and uncluttered; focal point friend – cluttered and uncluttered)

Note: Both sets of photos should combine all composition elements learned in the First year of this unit with the overall goal of reducing clutter in the background of the photographs.

2. Activity 10 – 4 photos:

- a. 4 photos of same subject – 1 taken from each position
  - i. On stomach – aiming at ground level
  - ii. On back – aiming up
  - iii. Leaning over – aiming down
  - iv. Sideways – aiming directly ahead
- b. 2 portrait view – 1 photo using a tripod and 1 photo not using a tripod

3. Activity 11 – 4 photos:

- a. Display 4 photos demonstrating your 4 favorite special effect techniques listing in the manual (choose from plant growing, balancing act, ceiling walking and “underwater”)

4. Activity 12 – 2 photos:

- a. 1 selfie
- b. 1 selfie with 3 or more people (including yourself)

5. Activity 13 – 6 photos

- a. 2 action photos

- b. 1 photo of a person
- c. 1 photo of a place
- d. 1 photo of a think/still-life
- e. 1 photo of an animal

6. Activity 14 – 3 to 5 photos:

- a. 3 to 5 photos displayed in order to tell a story
- Note: Plan out your story with a story board and include this in your exhibit.

7. Activity 15 – 4 photos

- a. 4 black and white photos, keeping in mind the rules of composition and lighting to produce creative photos

8. Activity 16 – 4 photos

a. Choose 4 photos taken during your entire time in Unit 1 (including the First and Second Year). These can be photos you have used for exhibit or photos that you took while experimenting with different photography techniques. Using the format of Photo Scorecard on page 79, evaluate your own photography (with labels and points) and include your evaluation with your exhibit.

**Class**

2104. .... Unit – 1 – Photography Basics –Second Year – Junior

2105. Unit 1 – Photography Basics – Second Year – Intermediate

2106. ....Unit 1 –Photography Basics – Second Year – Senior

## Unit 2

### Next Level Photography

Exhibit will consist of the following:

A. Completed e-Record. Include the following in your story: what camera you used this year (brand name, etc.), how do you store your pictures and why did you pick your Display Photo pictures. Include photos of you working on your project in the e-Record photo page.

B. See Photography rule #8 for labeling instructions.

C. Best Photo – 5” x 7” matted and ready to hang (no glass or frame).

D. You will include the following photos (total of 31 – 32 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.

1. Activity 1 – 2 photos:

- a. 2 photos using different lenses for each photo

2. Activity 2 – 2 photos:

- a. 2 photos using (2) special effects from the suggestions on page 16, or special effect lenses.

3. Activity 3 – 4 photos

Note: 4 photos, each of a different subject. Choose from the following: landscape, buildings, monuments, people, still life, close ups for details

- a. 2 photos demonstrating hard light
- b. 2 photos demonstrating soft/diffused light

4. Activity 4 – 2 photos

- a. Best reflection photos that have good composition

5. Activity 5 – 2 photos without using flash to convey mood:

- a. 1 photo using artificial light
- b. 1 photo using natural light

6. Activity 6 – 2 photos:

- a. 1 photo demonstrating rule of thirds in landscape view
- b. 1 photo demonstrating rule of thirds in portrait view

7. Activity 7 – 2 photos:

- a. 1 photo demonstrating golden triangle using transparent template
- b. 1 photo demonstrating golden rectangle using transparent template
- 8. Activity 8 – 3 photos:
  - a. 3 photos of different subjects shooting from different angles and viewpoints
- 9. Activity 9 – 2 photos:
  - a. 2 photos using composition elements and space in the photo to tell the story
- 10. Activity 10 – 2 photos:
  - a. 2 candid photos
- 11. Activity 11 – 1 photo:
  - a. 1 photo that fills the entire frame of the photo with a piece of the subject
- 12. Activity 12 – 1 photo:
  - a. 1 panorama photo
- 13. Activity 13 – 2 photos:
  - a. 1 photo that shows warm colors
  - b. 1 photo that shows cool colors
- 14. Activity 14 – 4 photos:
  - a. Each photo should have a specific purpose behind it. Be sure to use the skills and techniques learned so far during your units to take quality photos for this activity

- 6. Activity 6 – 1 photo:
  - a. 1 photo using either geometric shapes or interesting framing
- 7. Activity 7 – 2 photos:
  - a. 1 photo that represents harmony
  - b. 1 photo that represents discord
- 8. Activity 8 – 4 photos:
  - a. 4 still life photos that demonstrate similar themes, similar colors, and different lighting
- 9. Activity 9 – 4 photos:
  - a. 4 photos with different poses
- 10. Activity 10 – 4 photos of different subjects using macrophotography:
  - a. 1 photo representing symmetry/asymmetry
  - b. 1 photo representing pattern/texture
  - c. 1 photo representing shape/form
  - d. 1 photo representing visual rhythms
- 11. Activity 11 – 2 photos:
  - a. 2 action photos
- 12. Activity 12 – 2 photos:
  - a. 2 photos showing either astrophotography, underwater or infrared techniques
- 13. Activity 13:
  - a. Make a posterboard joiner

**Class**

- 2107. .... Unit 2 – Next Level Photography – Junior
- 2108. .... Unit 2 – Next Level Photography – Intermediate
- 2109. .... Unit 2 – Next Level Photography – Senior

**Class**

- 2110. .... Unit 3 – Mastering Photography – Junior
- 2111. .... Unit 3 – Mastering Photography – Intermediate
- 2112. .... Unit 3 – Mastering Photography – Senior

**Unit 3**

**Mastering Photography**

Exhibit will consist of the following:

**A. Completed e-Record. Include the following in your story: what camera you used this year (brand name, etc.), how do you store your pictures. Include photos of you working on your project in the e-Record photo page.**

**B. See Photography rule #8 for labeling instructions.**

**C. Favorite Photo – page 7 Mastering Photography Book 3**

**D. Posterboard Photo Joiner (Activity 13 – This will be your exhibit item with your e-record, favorite matted photo and photo journal/binder which includes the photos from the following activities.**

**E. You will include the following photos (total of 29 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.**

- 1. Activity 1 – 2 photos:
  - a. 1 photo using 1/250 f8 of a bright scene
  - b. 1 photo using 1/250 f8 of a dark scene
- 2. Activity 2 – 2 photos:
  - a. 1 photo using small f-stop
  - b. 1 photo using big f-stop
- 3. Activity 3 – 2 photos:
  - a. 2 night photos using correct aperture
- 4. Activity 4 – 1 photo:
  - a. 1 photo with the subject backlit with the main subject in the foreground
- 5. Activity 5 – 3 photos:
  - a. Silhouette in nature
  - b. Silhouette taken indoors
  - c. A silhouette of your choice

**Unit 4**

**Lightning Photography**

Unit 4 Lightning Photography is not limited to only lightning photos. Youth can exhibit photos taken at night: moon light photos, fireworks, night-time photos. Photos using long exposure and high speed can also be exhibited. Be sure to check out the requirements.

Exhibit will consist of the following:

**A. Completed e-Record with emphasis on accomplishments in your story. Include photos in the e-Record photo page of you working on your project.**

**B. Completed Photo Journal/Binder. See Photography rule #8 for labeling instructions.**

**C. Three 5” x 7” photos mounted on a mat and suitable for hanging. No other mounted materials (i.e., glass, wood, plastic, metal, etc.) can be used.**

**D. These three photos can be taken from any of these categories: lightning, nighttime, fireworks, and moonlight, long exposure and high speed photos. For example: two lightning photos and one moonlight photo; or one lightning, one fireworks, one long exposure, and so on. Any combination can be done.**

**E. Maximum size for the matted picture is no larger than 8” x 10”.**

**F. Attached to the back of the submitted print should be:**

- 1. Name
- 2. County
- 3. Date, time, and location of photo
- 4. Make and model of camera used
- 5. Shutter speed and aperture setting
- 6. ASA film speed (for film cameras) or ISO resolution setting (for digital cameras)

**Class**

- 2113. ....Unit 4 - Lightning Photography - Junior
- 2114. ....Unit 4 – Lightning Photography - Intermediate
- 2115. ....Unit 4 – Lightning - Senior

**Unit 6**

**Advanced Photography**

**Note:** This unit is for those 4-H members who have advanced photography experiences (i.e., creative darkroom work, publishing, careers, etc.).

**Exhibit will consist of the following:**

A. Completed **Photography Unit 6 e-Record** with emphasis on accomplishments in your story. **Include photos in the e-Record photo page of you working on your project. (Self-Determined)**

B. **All photos must be labeled in your Photo Journal/Binder. See Photography rule #9.**

C. Include the following information on the Specific Information Page in the **Photography Unit 6 e-Record**:

- 1. goals
- 2. plans
- 3. accomplishments
- 4. evaluation

D. Photos should show your progress and be labeled as successful or not, plus reasons.

**E. Photo Journal/Binder which illustrates achievements.**

F. Display photo may be up to 5” x 7” in size but not larger 8” x 10” matted. This photo will be used for displaying and must be matted.

**Class**

- 2116. ....Unit 6 – Advanced Photography - Junior
- 2117. ....Unit 6 – Advanced Photography - Intermediate
- 2118. ....Unit 6 – Advanced Photography - Senior

**Special Awards**

Overall Champion Photography Exhibit

**Tom & Kara Rudnick Family, Fort Collins**

Outstanding Junior Outdoor Adventures Record Book

**Bug-A-Bug-A 4-H Club, Kara Rudnick, Fort Collins**

Outstanding Intermediate Outdoor Adventures Record Book

**Bug-A-Bug-A 4-H Club, Kara Rudnick, Fort Collins**

Outstanding Senior Outdoor Adventures Record Book

**Bug-A-Bug-A 4-H Club, Kara Rudnick, Fort Collins**

# 4-H Filmmaking

Superintendent – Caree Rinebarger

Description of what the Filmmaking Project Categories are:

1. Animation – A film created by techniques that simulate movement from individual images.
2. Narrative – A film which tells a story that you created. It can be based on fact or fiction.
3. Documentary – A film which presents factual information about a person, event or process.
4. Promotional – This category is for films or public service announcements that are meant to publicize 4-H programs or some other cause that you are passionate about.
5. Voices of 4-H History – A historical perspective on 4-H. may be a narrative, documentary, animation, etc.

### Exhibit will consist of the following:

- A. Completed e-Record and binder/notebook including storyboard.
- B. Video must be less than 10 minutes in length.
- C. Make sure your video is in good taste (similar to G and PG ratings.) Videos may be disqualified if deemed to have questionable content. 4-H Code of Conduct must be followed.
- D. A link must be provided to view the video. Members must supply the following information:
  1. Name
  2. County
  3. Title
  4. Class
  5. 4-H Age
  6. Short Description

## Animation

<b>Class</b>	
2201. ....	Animation - Junior
2202. ....	Animation - Intermediate
2203. ....	Animation - Senior

## Narrative

<b>Class</b>	
2204. ....	Narrative - Junior
2205. ....	Narrative - Intermediate
2206. ....	Narrative - Senior

## Documentary

<b>Class</b>	
2207. ....	Documentary - Junior
2208. ....	Documentary - Intermediate
2209. ....	Documentary - Senior

## Promotional

<b>Class</b>	
2210. ....	Promotional - Junior
2211. ....	Promotional - Intermediate
2212. ....	Promotional - Senior

## Voices of 4-H History

<b>Class</b>	
2213. ....	Voices of 4-H History - Junior
2214. ....	Voices of 4-H History - Intermediate
2215. ....	Voices of 4-H History - Senior

## Special Awards

- Overall Champion 4-H Filmmaking
  - Skillman Photography**, Tom Skillman, Fort Collins
- Outstanding Junior Filmmaking Record Book
  - Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins
- Outstanding Intermediate Filmmaking Record Book
  - Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins
- Outstanding Senior Filmmaking Record Book
  - Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Woodworking

Superintendent – Stan Heene

Units 1, 2, and 3 in Woodworking have very specific restrictions on the tools used in building an article to display. This is done for reasons of safety and to provide a fair comparison among projects in a unit. An exhibit that shows evidence of not following these restrictions will not be considered for Champion or Reserve Champion.

**Note:** In making all placings, judges will consider straightness, accuracy, and smoothness of saw cuts, the difficulty and preciseness of joints, the skill employed in the use of nails, screws, gluing and other hardware, freedom from tool or sandpaper marks, appropriate finish evenly applied, article attractiveness, proportions and use of proper wood for the intended use, ability to follow instructions, quality of workmanship and completeness of e-Record. Always use proper safety gear. (For large exhibits – like beds – please bring only the head and foot boards. No rails.)

## Exhibit Requirements

All exhibits will consist of the following:

A. Completed Woodworking e-Record with the plans used for making the exhibit (tell if the plan was your own, manual or other) presented in a sturdy binder/notebook.

B. Include the following information on the Woodworking page:

1. Plan source used (your own, manual or other)
2. Kind of wood used
3. Names of joints and fasteners used
4. A drawing or other copy of a plan for the article exhibited:
  - a. dimensions
  - b. list of materials used
  - c. a description of any changes in the article's specifications
  - d. reason for the changes
5. List of all articles made

The drawing or plan itself will not be judged. It is only for the judge's use in judging the article exhibited. If the drawing is missing, the exhibit will not be considered for Champion or Reserve Champion.

C. Any one article constructed by the exhibitor using the skills learned in unit.

## Unit 1 Measuring Up

Class

2401. .... Junior

2402. .... Intermediate

2403. .... Senior

**Note:** Use hand tools only. Articles made with tools other than hand tools will not be considered for Champion or Reserve Champion.

## Unit 2 Making the Cut

Class

2404. .... Junior

2405. .... Intermediate

2406. .... Senior

**Note:** The only tools used are hand tools, power hand drill, miter box (non-powered), oscillating (pad) sander and jigsaw. Articles made with power tools other than those listed will not be considered for Champion or Reserve Champion.

## Unit 3 Nailing it Together

Class

2407. .... Junior

2408. .... Intermediate

2409. .... Senior

**Note:** The only tools used are: hand tools, power hand drill, miter box, jigsaw, scroll saw, power sanders, table saw, drill press, band saw, rabbet plane, jointer and router. Articles made with power tools other than those listed will not be considered for Champion or Reserve Champion.

## Unit 4 Finishing Up

Class

2410. .... Junior

2411. .... Intermediate

2412. .... Senior

**Note:** Allowed tools are all those mentioned in Units 1 – 3, plus circular saw, radial arm saw, planer, wood lathe, chop saw, and other power tools needed to complete Unit 4 projects.

## Special Award

Overall Champion Woodworking Exhibit

**Wyoming Winds Soap Company, LLC**, Shannon Shreve, Carr  
Outstanding Junior Woodworking Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins  
Outstanding Intermediate Woodworking Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins  
Outstanding Senior Woodworking Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

# Self-Determined

(Not Eligible for State Fair)

## Exhibit Requirements

All exhibits will consist of the following:

A. Completed e-Record Book.

B. An educational display board with something you have learned in the project. Photographs or drawings may be used to illustrate your project as well as an explanation of your work. The standardized display board size of 4' x 3' is to be used. No additional items may be included on or in front of display board.

C. For **First Aid and Creative Arts**, an actual item may be entered instead of a display board (i.e., first aid kit or jewelry).

### Class

- 210. .... Junior
- 220. .... Intermediate
- 230. .... Senior

## Special Award

Overall Champion Self-Determined Exhibit

**Construction Supply House**, Cindy Buckardt, Berthoud

Outstanding Junior Self-Determined Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Intermediate Self-Determined Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

Outstanding Senior Self-Determined Record Book

**Bug-A-Bug-A 4-H Club**, Kara Rudnick, Fort Collins

## Colorado 4-H Code of Conduct

**4-H Members, Leaders, Parents, and other Adults participating in 4-H Programs will:**

- 1. Adhere to program rules, curfews, dress codes, policies, and rules of the facility being used.**
- 2. Conduct themselves in a courteous, respectful manner, use appropriate language, exhibit good sportsmanship, and act as positive role models.**
- 3. Abstain from illegal behaviors, use of alcohol, marijuana, illegal or illicit drugs, and tobacco including e-cigarettes and vaping device during 4-H events and activities.**
- 4. Fully participate in scheduled activities.**
- 5. Respect others property and privacy rights.**
- 6. Respect the rights and authority of parents, leaders and Extension Agents.**
- 7. Abstain from abuse (physical and/or verbal) and harassment.**
- 8. Accept personal responsibility for behavior including any financial damage.**
- 9. Be responsible for any financial damage caused by inappropriate behavior.**
- 10. Adhere to principles and rules of safety.**

Consequences for violating any part of this code of conduct may include, but are not limited to: removal from participation in the event in which the code of conduct has been violated (at the individual's expense); sanctions on participating in future 4-H events; forfeiture of financial support for the event; removal from offices held, etc.

Behavior outside of 4-H activities can affect "member in good standing" or "volunteer in good standing" status.

It is the responsibility of all program participants to reinforce the code of conduct and intervene when necessary, to enforce the rules.

## Colorado 4-H Dress Code

The following dress code has been developed for 4-H members and leaders to exhibit their best appearance during any 4-H events or activities. If you choose to dress inappropriately, you will be asked to change. Planning ahead will save you the inconvenience of changing your attire during the 4-H event or activity and ensure that you contribute to a pleasant 4-H atmosphere.

Please be advised that the following dress code will be enforced for all 4-H members attending 4-H events and activities.

- Clothing: All clothing shall be neat, clean, acceptable in repair and appearance, and shall be worn within the bounds of decency and good taste as appropriate for 4-H events and activities.
- Articles of clothing which display profanity, products, or slogans which promote tobacco, alcohol, drugs, sex or are in any other way distracting, are prohibited.
- Excessively baggy or tight clothing which advertises gang symbols or affiliation is prohibited.
- Items of clothing which expose bare midriffs, bare chests, undergarments, or that are transparent (see-through) are prohibited. Tank tops with straps wider than one inch are permitted. Please be advised that spaghetti straps, shirts which expose a bare back, halter tops, and tube tops are prohibited.
- Shorts must be mid-thigh length. No cut-off shorts or short shorts allowed.
- Hats need to be removed for meetings, workshops, meals, and other times when asked to remove them.
- Shoes must be worn at all times deemed appropriate.