

2023 COLORADO STATE FAIR 4-H EXHIBIT REQUIREMENTS

FOR GENERAL AND CONSUMER SCIENCES DIVISIONS

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Superintendents

TBD - General Building Superintendent
TBD - General Building Superintendent
TBD - General Building Superintendent
Josilyn Lutze - Shooting Sports Superintendent
Becky Jacobson - Consumer Science Superintendent
Jen Johnston - Co-Display Superintendent
Josey Pukrop - Co-Display Superintendent
Diana Solenberger - Co-Display Superintendent
Joy Bauder - Entry Superintendent
Carla Farrand - Entry Superintendent

Note: (Jr., Int., Sr.) = Junior, Intermediate, Senior

All contest requirements can be found in the 2022-23 Contest Requirements at:
co4h.colostate.edu



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GENERAL AND CONSUMER SCIENCE

4-H PROJECT RULES

1. Eligibility: Exhibitors in the divisions of this department must be bona fide members of Colorado 4-H whose project work and records are certified and up-to-date and deemed eligible by the appropriate Extension agent. In addition, exhibitors must be at least eight years of age, must not have reached their 19th birthday as of December 31 of the current enrollment year and must satisfy other eligibility requirements (if specified) for a class, to compete in that class. **(The project work must be the member's own work and sources must be cited. Plagiarism will not be tolerated.)**

2. 4-H members may enter only once in the same class.

3. Members must be enrolled in the project (which may be broken down into units, levels, or categories) in which they exhibit.

4. Only one exhibit in each class will be accepted from each county. Projects entered into the wrong class will be moved to the correct class when possible.

5. **If a member enrolls in two units of the same project (for example, Unit 2 and Unit 3 of Leathercraft), the member must exhibit in the higher level – Unit 3 in this case). When a member takes two units at the same time, the member should master the skills of the lower unit and therefore exhibit in the higher unit.**

6. 4-H e-Records may be completed in pencil, ink or by computer. The choice will not affect judging.

7. Display boards must meet the specifications. The standardized display board size of 4ft. x 3ft. is to be used for 4-H projects. **No sharp items including but not limited to blades, thumb tacks, fishing hooks, knives, etc. are allowed on display boards or as part of any other exhibit.**

8. Projects are divided by Junior, Intermediate and Senior age groups. The age for Juniors is 8–10 years, Intermediates is 11–13 years, and Seniors is 14–18 years.

9. Exhibit entries will be done online. The Extension agent is to enter each exhibit online with a **description.**

10. Entry labels: Each exhibit and binder/notebook (containing the e-Record and other materials) is to have a label designating the following: county name, exhibitor name, age, department, division, and class. **The label needs to be on the upper right-hand front outside of the binder/notebook and on the exhibit (usually the back of the exhibit or on the flap).** Be sure to read special instructions about tags for some exhibits. For example, leathercraft, clothing, heritage arts, etc. have specific instructions. All exhibits must be accompanied

by a completed label. For security reasons, do not list the member address on projects.

11. Exhibit entries are to be entered by 5 pm on Monday, August 7, through FairEntry. Each county will be assigned a time to bring projects on either TUESDAY, August 15, or Wednesday, August 16. Exhibits will be taken down on Tuesday, September 5. We are asking all counties to come and help take down exhibits and then you can pick up your exhibits. Take down will start at 8:00 am and continue until finished. The 4-H building will be closed and locked at 12 noon. Exhibits left after 12 noon will be the responsibility of the county.

12. All Champion, Reserve Champion and placing award exhibits must be displayed and remain on display for the duration of the state fair.

13. Any exhibit released for a special activity during the state fair must be returned for display.

14. Management will not be responsible for loss or damage to exhibits, although it will use all care to ensure their safety.

15. Note: Exhibits of unusual size or shape may not be on public display. Exhibitor cards and ribbons will be displayed in project areas. All other projects will be displayed unless there is a safety, health, or space issue.

STATE FAIR JUDGING/RIBBON AWARDS

1. Champion and Reserve Champion ribbons shall be awarded only to exhibits that meet all the exhibit requirements and standards. Third through 10th place ribbons will be awarded according to standards and requirements.

2. Grand Champion and Reserve Grand Champion exhibitors will be declared in each project of the 4-H section from designated class champions. In the Junior, Intermediate and Senior divisions, a Grand Champion will be selected from all champions from each age category. The remaining class Champion and Reserve Champion exhibits in the class from which the Grand Champion was chosen will be eligible for Reserve Grand Champion consideration.

3. Those exhibits not meeting requirements and standards will be awarded a state fair qualifier ribbon.

4. Items entered in the wrong class **that cannot be moved to the correct class** will not be eligible for a placing ribbon.

5. The American System will be used to rank the 4-H exhibits. This system uses product standards and fulfillment of exhibit requirements to rank exhibits. It also uses the idea of competition among exhibitors to establish ranking.

Display Board Guidelines for State Fair 4-H Exhibits

Display boards are a great way to share information, but when viewers walk by, they spend only 60-90 seconds looking at each display board. Make yours stand out by highlighting the main points of your project in a fun, interesting way.

Follow these guidelines to create a display board for the state fair.

SHAPE
Design your exhibit so information fits on the display. Remember, you have 1 large surface, and 2 smaller side wings.

SPACE
Your display should only discuss one main topic. This will help it look neat and uncrowded.

ATTACHMENTS
Make sure pictures and objects are securely attached to the board. Use glue for pictures and paper, and consider wires, zip ties or staples to attach bulkier items.
Do not attach items that are so heavy that your board can't stand or fold.

TEXT
Make sure that all the text on your display is easy to read. Use a large font for the title, and smaller fonts for the headings and body text. Text must be readable from 3-5 feet away. Use large bold letters. Dark letters on a light background works best.

SIZE
Display boards for the state fair must measure 4 ft. wide x 3 ft. tall. They should be made of lightweight cardboard, but not poster board. Pre-cut boards are available at most craft and shopping centers.
No part of your display may extend beyond these boundaries.

DISPLAY BOOKS

Your e-Record book should accompany your board. You may use 3-ring binders or other notebooks that will keep the pages securely inside. You may not use slider-type binders.

Please place a label with the following information in the upper right-hand corner of the front cover:
County, Name, 4-H Age, Project Area, and Class.
(See example.)

Sample

Adams County
Jane Doe
15
Animal Science
Vet Science
Class 009

GENERAL DEPARTMENT

ANIMAL SCIENCE

VETERINARY SCIENCE

Note: Please read 4-H Project Exhibit Rules on page 2.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

FROM AIREDALLES TO ZEBRAS—UNIT 1

- Class 101 From Airedales to Zebras **Unit 1** Jr.
Class 102 From Airedales to Zebras **Unit 1** Int.
Class 103 From Airedales to Zebras **Unit 1** Sr.

ALL SYSTEMS GO!—UNIT 2

- Class 104 All Systems Go! **Unit 2** Jr.
Class 105 All Systems Go! **Unit 2** Int.
Class 106 All Systems Go! **Unit 2** Sr.

ON THE CUTTING EDGE—UNIT 3

- Class 107 On the Cutting Edge **Unit 3** Jr.
Class 108 On the Cutting Edge **Unit 3** Int.
Class 109 On the Cutting Edge **Unit 3** Sr.

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

All exhibits will consist of the following:

A. A project manual (**Cooperative Curriculum System, CCS—From Airedales to Zebras or All Systems Go or On the Cutting Edge**) and e-Record presented in a sturdy binder/notebook, including these items: manual with appropriate sections completed and e-Record and other attachments related to activities in the manual. Do a minimum of seven activities, any combination of activities, and booster shots. These units may be completed in three years.

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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

HORSELESS HORSE

Note: Please read 4-H Project Exhibit Rules on page 2.

MAKING HORSE SENSE—UNIT 1

Class 201	Making Horse Sense Unit 1	Jr.
Class 202	Making Horse Sense Unit 1	Int.
Class 203	Making Horse Sense Unit 1	Sr.

HOOVES, HEALTH & HORSEMANSHIP—UNIT 2

Class 204	Hooves, Health & Horsemanship Unit 2	Jr.
Class 205	Hooves, Health & Horsemanship Unit 2	Int.
Class 206	Hooves, Health & Horsemanship Unit 2	Sr.

BREAKING GROUND—UNIT 3

Class 207	Breaking Ground Unit 3	Jr.
Class 208	Breaking Ground Unit 3	Int.
Class 209	Breaking Ground Unit 3	Sr.

BRUSHING UP ON HORSES—UNIT 4

Class 210	Brushing Up on Horses Unit 4	Jr.
Class 211	Brushing Up on Horses Unit 4	Int.
Class 212	Brushing Up on Horses Unit 4	Sr.

All exhibits will consist of the following:

A. The completed **Horseless Horse Unit 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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

CATS

Note: Please read 4-H Project Exhibit Rules on page 2.

PURR-FECT PALS—UNIT 1

Class 301	Purr-fect Pals Unit 1	Jr.
Class 302	Purr-fect Pals Unit 1	Int.
Class 303	Purr-fect Pals Unit 1	Sr.

CLIMBING UP—UNIT 2

Class 304	Climbing Up Unit 2	Jr.
Class 305	Climbing Up Unit 2	Int.
Class 306	Climbing Up Unit 2	Sr.

LEAPING FORWARD—UNIT 3

Class 307	Leaping Forward Unit 3	Jr.
Class 308	Leaping Forward Unit 3	Int.
Class 309	Leaping Forward Unit 3	Sr.

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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.
- C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

MECHANICAL SCIENCES

METALWORKING

Note: Please read 4-H Project Exhibit Rules on page 2.

The following types of projects cannot be exhibited at the Colorado State Fair: Weaponry (knives, swords, spear points, etc.), cutting tools (axes, saws, knives, machetes, etc.), sharp home or garden tools (garden hoe, shears, loppers, saws, etc.), sharp outdoor, hunting or fishing equipment (frog gig, leg trap, arrow points, hooks, fishing/meat gaff, etc.), propulsion or motorized vehicles (go carts, etc.) or any other item deemed dangerous or inappropriate by the superintendent(s).

For ideas, tips, and answers to frequently asked questions, please see the Metalwork Tip Sheet at: <https://co4h.colostate.edu/projects/pages/Metalworking-PT.pdf>.

INTRODUCTION TO METALWORK—UNIT 1

Class 501 Intro to Metalwork Unit 1 Jr.

Class 502 Intro to Metalwork Unit 1 Int.

Class 503 Intro to Metalwork Unit 1 Sr.

All exhibits will consist of the following:

- A. A completed e-Record presented in a sturdy binder/notebook.
- B. Exhibit the following:
- One each: Lap, Butt and 90-degree T joints Requirements:
 - Each joint will be made of 2 separate pieces, 3" to 4" long of 1" to 2" wide flat strap metal, between 1/8" (11 gauge) and 1/4" thick
 - On clean steel with no paint, oil, or other finishes
 - Single pass weld on one side of each required joint
 - Name, County and Class number on bottom of each completed joint in permanent ink or paint
 - An exhibit up to 3'x3'x7' and under **50 lbs.**
 - No paint, oil, or other finishes
 - No grinding or smoothing of welds
 - Metal only – No wood, plastic, or other building materials on the project to be judged
 - Photos of the exhibit project construction (placed in e-Record)
 - Four photos of the prep work (drafting plans, measuring, cutting, torching, bending, fitting, etc.)
 - Four photos of actual welds (individual welds)

- Four photos of finish work (no painting, no oil, no seasoning, front view, side view, top view, best overall view)

C. Project will be evaluated on the quality of the information completed in the e-Record and emphasis on the quality of welds on the exhibit.

METAL FABRICATION—UNIT 2

Class 504 Metal Fabrication Unit 2 Jr.

Class 505 Metal Fabrication Unit 2 Int.

Class 506 Metal Fabrication Unit 2 Sr.

All exhibits will consist of the following:

- A. A completed e-Record presented in a sturdy binder/notebook.
- B. Exhibit the following:
- An exhibit project up to 3'x3'x7' and under **100 lbs.**
 - Paint, oil, and other finishes are allowed
 - Grinding of welds is allowed
 - Wood, plastic, or other building materials are allowed but must be less than 50% of the project materials
 - No moving parts – must be a static item (no hinges, wheels, slides, etc.)
 - No additional features (lights, electrical, water, etc.)
 - Photos of the exhibit project construction (placed in e-Record)
 - Four photos of the prep work (drafting plans, measuring, cutting, torching, bending, fitting, etc.)
 - Four photos of actual welds (individual welds)
 - Four photos of finish work (no painting, no oil, no seasoning, front view, side view, top view, best overall view)

C. Project will be evaluated on the quality of the information completed in the e-Record and the quality of the overall exhibit.

ADVANCED METAL FABRICATION—UNIT 3

Class 507 **Advanced** Metal Fabrication Unit 3 Jr.

Class 508 **Advanced** Metal Fabrication Unit 3 Int.

Class 509 **Advanced** Metal Fabrication Unit 3 Sr.

All exhibits will consist of the following:

- A. A completed e-Record presented in a sturdy binder/notebook.
- B. Exhibit the following:
- An exhibit project up to 3'x3'x7' and under **150 lbs.**

- i. Paint, oil and other finishes are allowed
- ii. Grinding of welds is allowed
- iii. Wood, plastic, or other building materials are allowed but must be less than 50% of the project materials
- iv. Moving parts allowed (hinges, wheels, slides, etc.)
- v. Additional features allowed (lights, electrical, water, etc.)
- b. Photos of the exhibit project construction (placed in e-Record)
 - i. Four photos of the prep work (drafting plans, measuring, cutting, torching, bending, fitting, etc.)
 - ii. Four photos of actual welds (individual welds)
 - iii. Four photos of finish work (no painting, no oil, no seasoning, front view, side view, top view, best overall view)

C. Project will be evaluated on the quality of the information completed in the e-Record and the quality of the overall exhibit.

less than 50% of the project materials

- 5. Moving parts allowed (hinges, wheels, slides, etc.)
- 6. Additional features allowed (lights, electrical, water, etc.)

C. Project will be evaluated on the quality of the information completed in the e-Record completeness of the display board and the quality of the project as exhibited on the display board.

LARGE EXHIBIT FABRICATION—UNIT 4

- Class 510 **Large Exhibit** Fabrication Unit 4 Jr.
- Class 511 **Large Exhibit** Fabrication Unit 4 Int.
- Class 512 **Large Exhibit** Fabrication Unit 4 Sr.

All exhibit wills consist of the following:

- A. Completed e-Record presented in a sturdy binder/notebook
- B. Exhibit the following:
 - a. A 4' wide by 3' tall display board of your completed project with the following minimum information
 - i. Title or description of exhibit project
 - ii. Left Side - Four photos minimum of the prep work (drafting plans, measuring, cutting, torching, bending, fitting, etc.)
 - iii. Right Side - Four photos minimum of completed welds
 - 1. No paint, oil, or other finishes on welds
 - 2. No grinding or smoothing of welds
 - iv. Center - Four photos of minimum finish project (front view, side view, top view, best overall view)
 - v. All project photos must be 5"x 7" minimum
 - vi. Captions for each photo
 - vii. Project requirements
 - 1. An exhibit project larger than 3'x3'x7' or over 150 lbs.
 - 2. Paint, oil, and other finishes are allowed
 - 3. Grinding of welds is allowed
 - 4. Wood, plastic, or other building materials are allowed but must be

COMPUTER SCIENCE

Note: Please read the 4-H Project Exhibit Rules on page 2.

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

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

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 – an original program using a higher-level programming language such as Python, Javascript, C++, etc.

DISCOVERING COMPUTER SCIENCE & PROGRAMMING THROUGH SCRATCH Level 1

Display Board Exhibits

Class 601	Computer Science	Display Board	Jr.
Class 602	Computer Science	Display Board	Int.
Class 603	Computer Science	Display Board	Sr.

Beginning Programming

Class 604	Beginning Programming	Jr.
Class 605	Beginning Programming	Int.
Class 606	Beginning Programming	Sr.

Stand Alone Exhibits

Class 607	Computer Science	Stand Alone	Jr.
Class 608	Computer Science	Stand Alone	Int.
Class 609	Computer Science	Stand Alone	Sr.

DISCOVERING COMPUTER SCIENCE & PROGRAMMING THROUGH SCRATCH Level 2

Display Board Exhibits

Class 610	Computer Science	Display Board	Int.
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Class 611	Computer Science	Display Board	Sr.
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Intermediate Programming

Class 612	Intermediate Programming	Int.
Class 613	Intermediate Programming	Sr.

Stand Alone Exhibits

Class 614	Computer Science	Stand Alone	Int.
Class 615	Computer Science	Stand Alone	Sr.

DISCOVERING COMPUTER SCIENCE & PROGRAMMING THROUGH SCRATCH Level 3

Display Board Exhibits

Class 616	Computer Science	Display Board	Int.
Class 617	Computer Science	Display Board	Sr.

Advanced Programming

Class 618	Advanced Programming	Int.
Class 619	Advanced Programming	Sr.

Stand-Alone Exhibit

Class 620	Computer Science	Stand Alone	Int.
Class 621	Computer Science	Stand Alone	Sr.

COMPUTERS IN THE 21ST CENTURY

Display Board Exhibits

Class 622	Computers 21 st Century	Display Board	Int.
Class 623	Computers 21 st Century	Display Board	Sr.

Stand-Alone Exhibits

Class 624	Computers 21 st Century	Stand Alone	Int.
Class 625	Computers 21 st Century	Stand Alone	Sr.

All exhibits will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manuals for that unit 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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in

front of the display board. All items must be attached to the display boards.

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

Advanced Programming –create 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. All stand-alone projects are subject to the risks of display at county and state fair if eligible.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

ELECTRICITY

Note: Please read 4-H Project Exhibit Rules on page 2.

MAGIC OF ELECTRICITY—UNIT 1

Class 701 Magic of Electricity **Unit 1** Jr.

Class 702 Magic of Electricity **Unit 1** Int.

Class 703 Magic of Electricity **Unit 1** Sr.

All exhibits will consist of the following:

A. Completed 4-H Electric project manual (at least three required activities completed; at least four Optional activities -Brain Boosters completed; at least two leadership activities completed); and the 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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

INVESTIGATING ELECTRICITY—UNIT 2

Class 704 Investigating Electricity **Unit 2** Jr.

Class 705 Investigating Electricity **Unit 2** Int.

Class 706 Investigating Electricity **Unit 2** Sr.

Exhibit will consist of the following:

A. Completed 4-H Electric project manual (at least three required activities completed; at least four Optional activities -Brain Boosters completed; at least two leadership activities completed); and the 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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

WIRED FOR POWER—UNIT 3

Class 707 Wired for Power **Unit 3** Jr.

Class 708 Wired for Power **Unit 3** Int.

Class 709 Wired for Power **Unit 3** Sr.

All exhibits will consist of the following:

A. Completed 4-H Electric project manual (at least three required activities completed; at least four Optional activities -Brain Boosters completed; at least two leadership activities completed); and the 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: 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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

ENTERING ELECTRONICS—UNIT 4 (Senior Advanced)

Class 710 Entering Electronics **Unit 4** Sr.

All exhibits will consist of the following:

A. Completed 4-H Electric project manual (at least three required activities completed; at least four Optional activities -Brain Boosters completed; at least two leadership activities completed); and the 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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

Note: Please make sure that all items are attached securely to the exhibit and that they are labeled with the name of the exhibitor.

MODEL ROCKETRY

Note: Please read the 4-H Project Exhibit Rules on page 2.

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 its 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 Units 1-3.**
3. Fins of plastic or other materials must be exhibited in Units 4 and 6.
4. Unit 4 members may build helicopter and glider recovery rocket kits.
5. 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"x12"x1" thick. Only the rocket will be judged. Do not decorate the base. No triangular stands can be used for displaying the rocket.
6. Do not include live or expended engines in the rocket exhibited.
7. If the rocket is damaged in launching, it can still be judged for quality of construction, e-Record and pictures.
8. Display rockets cannot be used for the Rocket Fly Day competition at State Fair.
9. No launching pads should be used for displaying the rockets.
10. Launching your display rocket is not a requirement. If you are participating in Rocket Fly, make two rockets – one for exhibit and one to launch. **At least one rocket should be launched as part of the project to complete the "Launch Information" section of the supplemental sheet. If you are not able to launch due to a fire ban, etc. you must have an explanation on that sheet.**

11. Any decals used must be on the rocket.

Note: Please read specific rules for your unit.

INTRODUCTION TO ROCKETRY—UNIT 1

Balsa Fins Only

Class 801	Intro to Rocketry	Unit 1	Jr.
Class 802	Intro to Rocketry	Unit 1	Int.
Class 803	Intro to Rocketry	Unit 1	Sr.

All exhibits 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 a rocket was launched provide the following information on the Model Rocket 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; observations of rocket stability, flight path, etc.; any special problems before, during and after launching.
5. What did you do to overcome problems you encountered?

D. One rocket personally built or other display related to work done at Skill Level I (Estes Intermediate) or that meets at maximum these criteria:

1. Three to four balsa wood fins
2. Parachute recovery system
3. Single-stage motor (A3 to B6 first flight recommended motor size)

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

BASIC MODEL ROCKETRY—UNIT 2

Balsa Fins Only

Class 804	Basic Model Rocketry	Unit 2	Jr.
Class 805	Basic Model Rocketry	Unit 2	Int.
Class 806	Basic Model Rocketry	Unit 2	Sr.

All exhibits 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 a 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; observations of rocket stability, flight path, etc.; any special problems before, during and after launching.
5. What did you do to overcome problems you encountered?

D. One rocket personally built or display related to work done at Skill Level II (Estes Advanced) or that meets at maximum these criteria:

1. Three to eight balsa wood fins, including canard fins
2. Parachute recovery system
3. Single-stage motor (A3 up to C11 first flight recommended motor size)

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

INTERMEDIATE MODEL ROCKETRY—UNIT 3

Balsa Fins Only

Class 807 Intermediate Model Rocketry **Unit 3** Jr.

Class 808 Intermediate Model Rocketry **Unit 3** Int.

Class 809 Intermediate Model Rocketry **Unit 3** Sr.

All exhibits 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 a 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; observations of rocket stability, flight path, etc.; any special problems before, during and after launching.
5. What did you do to overcome the problems you encountered?

D. One rocket personally built in unit or display related to work done at Skill Level III (Estes Expert) or that meets at maximum these criteria:

1. Any combination of balsa wood fins
2. Parachute recovery system
3. Single-stage motor (B6 up to E12 first flight recommended motor size)

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

ADVANCED MODEL ROCKETRY—UNIT 4

Finished fins of any type

Class 810 Advanced Model Rocketry **Unit 4** Jr.

Class 811 Advanced Model Rocketry **Unit 4** Int.

Class 812 Advanced Model Rocketry **Unit 4** Sr.

All exhibits 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 a 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; altitude achieved and how it was determined; any special problems before, during and after launching.
5. What did you do to overcome any problems you encountered?

D. One rocket personally built in unit or display related to work done from Skill Level I up to Skill Level IV (Estes Master) or that meets at maximum these criteria:

1. Any combination of balsa wood or plastic fins.
2. Parachute, helicopter, or glider recovery system
3. Single-stage motor (A3 up to E12 first flight recommended motor size)

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

DESIGNER MODEL ROCKETRY—UNIT 6

Finished fins of any type

Class 813 Designer Model Rocketry **Unit 6** Jr.

Class 814 Designer Model Rocketry **Unit 6** Int.

Class 815 Designer Model Rocketry **Unit 6** Sr.

All exhibits will consist of the following:

A. Completed Model Rocketry e-Record with design worksheets and completed questions in manual on pages 35-39, presented in a sturdy binder/notebook. Include a copy of the plans or blueprints on how to build the rocket. If you used any software, such as an Excel spreadsheet, include that in your binder/notebook.

B. If a 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; observations of rocket stability, flight path, etc.; altitude achieved and how it was determined; any special problems before, during and after launching.
5. What did you do to overcome any problems you encountered?

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

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

ROBOTICS & ENGINEERING

Note: Please read 4-H Project Exhibit Rules on page 2.

1. In Junk Drawer Units (1-3), members 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 platforms include: Arduino Kits, EV3, Brushbot, Make, Hexy, Pushbutton Programmable Robotic Kit, Sparky, Cubelets, Robotic Arm Edge, Sparkfun Red Bot, WeDo, Multiplo, 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.
5. For more information about various team competitive robotics opportunities, see the list from the Colorado 4-H STEM website.

JUNK DRAWER ROBOTICS & ENGINEERING—UNIT 1—GIVE ROBOTICS A HAND

Display Board Exhibits

- Class 901 Give Robotics a Hand **Display Board Unit 1** Jr.
- Class 902 Give Robotics a Hand **Display Board Unit 1** Int.
- Class 903 Give Robotics a Hand **Display Board Unit 1** Sr.

Stand Alone Exhibits

- Class 904 Give Robotics a Hand **Stand Alone Unit 1** Jr.
- Class 905 Give Robotics a Hand **Stand Alone Unit 1** Int.
- Class 906 Give Robotics a Hand **Stand Alone Unit 1** Sr.

All exhibits will consist of the following:

A. A sturdy binder/notebook that contains the completed 4-H Robotics e-Record.

B. **For Display Board Exhibits:** One display board which you have made as a part of this unit of study.

The standardize display board size of 4' x 3' is to be used for 4-H projects.

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

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

JUNK DRAWER ROBOTICS & ENGINEERING—UNIT 2—ROBOTS ON THE MOVE

Display Boards Exhibits

- Class 907 Robots on the Move **Display Board Unit 2** Jr.
- Class 908 Robots on the Move **Display Board Unit 2** Int.
- Class 909 Robots on the Move **Display Board Unit 2** Sr.

Stand Alone Exhibits

- Class 910 Robots on the Move **Stand Alone Unit 2** Jr.
- Cass 911 Robots on the Move **Stand Alone Unit 2** Int.
- Cass 912 Robots on the Move **Stand Alone Unit 2** Sr.

All exhibits will consist of the following:

A. A sturdy binder/notebook that contains the completed 4-H Robotic e-Record.

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

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

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

JUNK DRAWER ROBOTICS & ENGINEERING—UNIT 3—MECHATRONICS

Display Board Exhibits

- Class 913 Mechatronics **Display Board Unit 3** Jr.
- Class 914 Mechatronics **Display Board Unit 3** Int.

Class 915 Mechatronics **Display Board Unit 3** Sr.

Stand Alone Exhibits

Class 916 Mechatronics **Stand Alone Unit 3** Jr.

Class 917 Mechatronics **Stand Alone Unit 3** Int.

Class 918 Mechatronics **Stand Alone Unit 3** Sr.

All exhibits will consist of the following:

A. A sturdy binder/notebook that contains the completed 4-H Robotic e-Record.

B. For Display Board Exhibits: One display board which you have made as a part of this unit of study. The standardize display board size of 4' x 3' is to be used for 4-H projects.

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

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

ROBOTICS PLATFORMS—UNIT 4—BEGINNER (Display Board Only)

Display Board Exhibits

Class 919 Platforms—Beginner **Display Board Unit 4** Jr.

Class 920 Platforms—Beginner **Display Board Unit 4** Int.

Class 921 Platforms—Beginner **Display Board Unit 4** Sr.

All exhibits will consist of the following:

A. A sturdy binder/notebook that contains the completed 4-H Robotic e-Record.

B. One display board which you have made as a part of this unit of study. The standardized display board size of 4' X 3' is to be used for 4-H projects.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

ROBOTICS PLATFORMS—UNIT 5—INTERMEDIATE (Display Board Only)

Class 922 Platforms—Intermediate **Display Board Unit 5** Jr.

Class 923 Platforms—Intermediate **Display Board Unit 5** Int.

Class 924 Platforms—Intermediate **Display Board Unit 5** Sr.

All exhibits will consist of the following:

A. A sturdy binder/notebook that contains the completed 4-H Robotic e-Record.

B. One display board which you have made as a part of this unit of study. The standardized display board size of 4' X 3' is to be used for 4-H projects.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

ROBOTICS PLATFORMS—UNIT 6—ADVANCED (Display Board Only)

Class 925 Platform—Advanced **Display Board Unit 6** Jr.

Class 926 Platform—Advanced **Display Board Unit 6** Int.

Class 927 Platform—Advanced **Display Board Unit 6** Sr.

All exhibits will consist of the following:

A. A sturdy binder/notebook that contains the completed 4-H Robotic e-Record.

B. One display board which you have made as a part of this unit of study. The standardized display board size of 4' X 3' is to be used for 4-H projects.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

TEAM ROBOTICS—UNIT 7 (Display Board Only)

Class 928 Team Robotics **Display Board Unit 7** Jr.

Class 929 Team Robotics **Display Board Unit 7** Int.

Class 930 Team Robotics **Display Board Unit 7** Sr.

All exhibits will consist of the following:

A. A sturdy binder/notebook that contains the completed 4-H Robotic e-Record.

B. One display board which you have made as a part of this unit of study. The standardized display board size of 4' X 3' is to be used for 4-H projects.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

SMALL ENGINES

Note: Please read 4-H Project Exhibit Rules on page 2.

CRANK IT UP—UNIT 1

Class 1001 Crank It Up Unit 1	Jr.
Class 1002 Crank It Up Unit 1	Int.
Class 1003 Crank It Up Unit 1	Sr.

All exhibits will consist of the following:

A. A completed Small Engines 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 board or a stand-alone item (but not both) such as: air and fuel systems, the electrical systems, a diagram of the engine block, etc. A display board can be on any topic from the Small Engines manual. 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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

WARM IT UP—UNIT 2

Class 1004 Warm It Up Unit 2	Jr.
Class 1005 Warm It Up Unit 2	Int.
Class 1006 Warm It Up Unit 2	Sr.

All exhibits will consist of the following:

A. A completed Small Engines 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 board or a stand-alone item (but not both) such as; air and fuel systems, the electrical system, a diagram of the engine block, etc. A display board can be on any topic from the Small Engines manual. 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 ft. x 3 ft. is to be

used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

TUNE IT UP—UNIT 3

Class 1007 Tune It Up Unit 3	Jr.
Class 1008 Tune It Up Unit 3	Int.
Class 1009 Tune It Up Unit 3	Sr.

All exhibits will consist of the following:

A. A completed Small Engines 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 board or a stand-alone item (but not both) such as: air and fuel systems, the electrical system, a diagram of the engine block, etc. A display board can be on any topic from the Small Engine manual. You may use pictures or any records you kept to provide 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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

ADVANCED ENGINES—UNIT 4

Class 1010 Advanced Small Engines Unit 4	Jr.
Class 1011 Advanced Small Engines Unit 4	Int.
Class 1012 Advanced Small Engines Unit 4	Sr.

All exhibits will consist of the following:

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

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 in the Small Engine Unit 4 e-Record:

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

C. Exhibit may be a display board or a stand-alone item (but not both) such as: air and fuel systems, the electrical system, a diagram of the engine block, etc. A display board can be on any topic related to engines. 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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

WOODWORKING

Please read 4-H Project Exhibit Rules on page 2.

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 ranked in the top-ten placing.

Projects for Units 1 and 2 will be a maximum size of 3 feet by 3 feet by 7 feet as they are meant to be used or displayed. The item must be stable when standing to be displayed.

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. **Please notify the State 4-H Office if exhibit is oversized.**

MEASURING UP—UNIT 1

Class 2401 Measuring Up **Unit 1** Jr.

Class 2402 Measuring Up **Unit 1** Int.

Class 2403 Measuring Up **Unit 1** Sr.

Note: Use hand tools only. Articles made with tools other than hand tools will not be ranked in the top-ten placing. A hand miter box is allowed. Size restriction: 3' x 3' x 7'.

MAKING THE CUT—UNIT 2

Class 2404 Making the Cut **Unit 2** Jr.

Class 2405 Making the Cut **Unit 2** Int.

Class 2406 Making the Cut **Unit 2** Sr.

Note: The only tools allowed 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 ranked in the top-ten placing. Size restriction: 3' x 3' x 7'.

NAILING IT TOGETHER—UNIT 3

Class 2407 Nailing It Together **Unit 3** Jr.

Class 2408 Nailing It Together **Unit 3** Int.

Class 2409 Nailing It Together **Unit 3** Sr.

Note: The only tools allowed 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 ranked in the top-ten placing.

FINISHING UP—UNIT 4

Class 2410 Finishing Up **Unit 4** Jr.

Class 2411 Finishing Up **Unit 4** Int.

Class 2412 Finishing Up **Unit 4** Sr.

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.

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. 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 ranked in the top-ten placings.

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

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

NATURAL RESOURCES

ENTOMOLOGY

Note: Please read 4-H Project Exhibit Rules on page 2. *Entomology Workbook Required. Entomology is the study of insects. Insects have three body regions, three pairs of legs and one pair of antennae, wings in adult stage, typically two pair.*

Spiders are Arachnida which have four pair of legs, two body regions and no antennae.

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. Level 1 has a display board option as well as an insect collection option since the Level 1 manual does not cover how to make an insect collection.

2. Each year 4-H members build on their collection by adding new insects as required for each unit. Refer to the exhibit requirements for the number of insects to collect for that unit.

Acceptable sizes of handmade Entomology Display Boxes include:

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

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.

Commercially available display cases are acceptable.

Regular insect pins are required in all units.

On **UNIT 2** through **UNIT 5** classes, the insect display must include date and location where insects were collected. Place this information on labels attached to insect pins.

Exhibit will consist of the following:

A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook. Do a minimum of 12 activities of any combination from the manual.

B. A display board representing some phase of your project work. This could include a chart or special equipment used or developed for the activities in the workbook. The standardized display board size of 4 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

TEAMING WITH INSECTS—LEVEL 1: BEGINNER INSECT COLLECTION—UNIT 2

Class 1104 Beginner **Insect** Collection Jr.

Class 1105 Beginner **Insect** Collection Int.

Class 1106 Beginner **Insect** Collection Sr.

All exhibits will consist of the following:

A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook. Do a minimum of 12 activities of any combination from the manual.

B. Insect collections—display no fewer than 25 and no more than 75 adult insects in at least 6 different orders. Standard-sized display boxes with removable glass covers are required. Regular insect pins are required.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

TEAMING WITH INSECTS—LEVEL 2—UNIT 3

Class 1107 Be an Entomologist Jr.

Class 1108 Be an Entomologist Int.

Class 1109 Be an Entomologist Sr.

All exhibits will consist of the following:

A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook. Do a minimum of 12 activities of any combination from the manual.

B. Insect collection—display no fewer than 75 and no more than 150 insects including a representative from at least 9 different orders (one order developed in water) and include one incomplete metamorphosis (egg-nymph-adult), correctly labeled. Standard-sized display boxes with removable glass covers are required. Regular insect pins are required.

TEAMING WITH INSECTS—LEVEL 1: DISPLAY BOARD—UNIT 1

Class 1101 Learning About Insects **Display Board** Jr.

Class 1102 Learning About Insects **Display Board** Int.

Class 1103 Learning About Insects **Display Board** Sr.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

TEAMING WITH INSECTS—LEVEL 3—UNIT 4

Class 1110 Insect Investigations Jr.

Class 1111 Insect Investigations Int.

Class 1112 Insect Investigations Sr.

All exhibits will consist of the following:

A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook. Do a minimum of 12 activities of any combination from the manual.

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 100 and no more than 250 insects in 10 different, correctly labeled orders. Standard-sized display boxes with removable glass covers are required. Regular insect pins are required.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

TEAMING WITH INSECTS—LEVEL 3: IMMATURE INSECTS AND LIFE STAGES—UNIT 5

Class 1113 Immature Insects & Life Stages Jr.

Class 1114 Immature Insects & Life Stages Int.

Class 1115 Immature Insects & Life Stages Sr.

All exhibits will consist of the following:

A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook. Do a minimum of 12 activities of any combination from the manual.

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. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

GARDENING

Note: Please read the 4-H Project Exhibit Rules on page 2.

The gardening project focuses on activities related to vegetable gardening: planning, planting, experimenting, understanding soils, seeds, insects, plant care, harvesting, processing, exploring careers, etc.

Growing Profits:

- Complete a minimum of four activities each year (Year 1: pages 4-19; Year 2: pages 20-39; Year 3: pages 40-56).
- Complete pages 65 and 66 in Year 1, pages 65 and 67 in Year 2, and pages 65 and 68 in Year 3.

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

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

SEE THEM SPROUT—UNIT 1

Class 401	See Them Sprout	Unit 1	Jr.
Class 402	See Them Sprout	Unit 1	Int.
Class 403	See Them Sprout	Unit 1	Sr.

LET'S GET GROWING! —UNIT 2

Class 404	Let's Get Growing	Unit 2	Jr.
Class 405	Let's Get Growing	Unit 2	Int.
Class 406	Let's Get Growing	Unit 2	Sr.

TAKE YOUR PICK—UNIT 3

Class 407	Take Your Pick	Unit 3	Jr.
Class 408	Take Your Pick	Unit 3	Int.
Class 409	Take Your Pick	Unit 3	Sr.

GROWING PROFITS—UNIT 4 (Senior Advanced)

Class 410	Growing Profits	Unit 4	Sr.
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All exhibits will consist of the following:

A. A gardening project manual and e-Record presented in a sturdy binder/notebook including these pages of the manual you are using this year:

See them Sprout:

- Complete a minimum of four activities each year (Year 1: pages 4-21; Year 2: pages 22-37).
- Complete pages 43 and 44 in Year 1 and 43 and 45 in Year 2.

Let's Get Growing:

- Complete a minimum of four activities each year (Year 1: pages 4-21; Year 2: pages 22-37).
- Complete pages 45 and 46 in Year 1 and 45 and 47 in Year 2.

Take Your Pick:

- Complete a minimum of four activities each year (Year 1: pages 4-21; Year 2: pages 22-40; Year 3: pages 41-54).
- Complete pages 63 and 64 in Year 1, pages 63 and 65 in Year 2, and pages 63 and 66 in Year 3.

OUTDOOR ADVENTURES

Note: Please read 4-H Project Exhibit Rules on page 2.

List the day, month, and year for the date of completed activities on page 4 of the manual.

HIKING TRAILS—UNIT 1

Class 1201	Hiking Trails	Unit 1	Jr.
Class 1202	Hiking Trails	Unit 1	Int.
Class 1203	Hiking Trails	Unit 1	Sr.

CAMPING ADVENTURES—UNIT 2

Class 1204	Camping Adventures	Unit 2	Jr.
Class 1205	Camping Adventures	Unit 2	Int.
Class 1206	Camping Adventures	Unit 2	Sr.

BACKPACKING EXPEDITIONS—UNIT 3

Class 1207	Backpacking Expeditions	Unit 3	Jr.
Class 1208	Backpacking Expeditions	Unit 3	Int.
Class 1209	Backpacking Expeditions	Unit 3	Sr.

All exhibits will consist of the following:

A. A completed manual of at least 6 chapter activities and at least 6 *Reach the Peak* activities completed each year. The e-Record presented in a sturdy binder/notebook is also required, which includes the appropriate sections in the manual completed, the e-Record and other items or attachments related to the activities in the manual.

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 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

SHOOTING SPORTS

Josilyn Lutze.....Superintendent

Note: Please read 4-H Project Exhibit Rules on page 2.

Project Exhibit Rules:

1. Be sure to include the log for the discipline that you are exhibiting in your record book.
2. There is one e-Record that contains the inventory sheet and the discipline log records for all the disciplines that are required for this project.
3. Display should illustrate a chosen aspect of skill areas. This is separate from the Colorado State 4-H Shooting Sports Championships. (The standardized display board size of 4 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included on or in front of the display board.) No wooden display cases. No humanoid targets are allowed in any form, including within photographs or drawings.
4. Counties may enter only one exhibit per class. Members may have entries in both the display board classes and the stand-alone classes.
5. No live ammo or projectiles including pellets, round balls, or arrows (with or without 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. Do not use the word weapon when creating your display. Make sure that there are no safety violations in your display. (Example: no earplugs, no safety glasses on a photo of a youth firing his/her gun.) Do not use pictures primarily tactical in design firearms in you display, i.e., AR platform or military type firearms.
7. The display board topics should stay in close relationship with your discipline. 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.)
8. Stand-alone items are items that are made to enhance the discipline, such as a quiver, gun case, gun stand, etc. No display boards or decorative items are allowed in the Stand-Alone Classes.
9. Because of limited floor space, those items that will be displayed on the floor will be a maximum size of 3 feet wide, 3 feet deep and 7 feet in height as the item is intended for display. The item must be stable when standing to be displayed within the 3' x 3' space. If an exhibit is larger than this, a notebook can be used as an exhibit showing how and what was made.

10. For those members who are exhibiting both a display board and a stand-alone, they may copy their e-Record. Each exhibit must have an e-Record. Be sure to highlight what you are exhibiting in your e-Record.

11. No stand-alone items that are an exhibit at the time of the contests will be allowed to be removed from the building to be used at the contests.

12. 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. Be sure to look at the classes to determine where your exhibit item fits.

If you have questions about your display and display requirements, contact your county Extension 4-H Agent.

DISPLAY BOARD CLASSES

ARCHERY

- | | | |
|--------------------|---------------|------|
| Class 1301 Archery | Display Board | Jr. |
| Class 1302 Archery | Display Board | Int. |
| Class 1303 Archery | Display Board | Sr. |

AIR RIFLE

- | | | |
|----------------------|---------------|------|
| Class 1304 Air Rifle | Display Board | Jr. |
| Class 1305 Air Rifle | Display Board | Int. |
| Class 1306 Air Rifle | Display Board | Sr. |

SHOTGUN

- | | | |
|--------------------|---------------|------|
| Class 1307 Shotgun | Display Board | Jr. |
| Class 1308 Shotgun | Display Board | Int. |
| Class 1309 Shotgun | Display Board | Sr. |

.22 RIFLE

- | | | |
|----------------------|---------------|------|
| Class 1310 .22 Rifle | Display Board | Jr. |
| Class 1311 .22 Rifle | Display Board | Int. |
| Class 1312 .22 Rifle | Display Board | Sr. |

.22 PISTOL

- | | | |
|-----------------------|---------------|------|
| Class 1313 .22 Pistol | Display Board | Jr. |
| Class 1314 .22 Pistol | Display Board | Int. |
| Class 1315 .22 Pistol | Display Board | Sr. |

BLACK POWDER MUZZLELOADING

Class 1316 Muzzleloading Display Board	Jr.
Class 1317 Muzzleloading Display Board	Int.
Class 1318 Muzzleloading Display Board	Sr.

AIR PISTOL

Class 1319 Air Pistol Display Board	Jr.
Class 1320 Air Pistol Display Board	Int.
Class 1321 Air Pistol Display Board	Sr.

WESTERN HERITAGE

Class 1322 Western Heritage Display Board	Jr.
Class 1323 Western Heritage Display Board	Int.
Class 1324 Western Heritage Display Board	Sr.

OUTDOOR SKILLS

Class 1325 Outdoor Skills Display Board	Jr.
Class 1326 Outdoor Skills Display Board	Int.
Class 1327 Outdoor Skills Display Board	Sr.

Members may have entries in both the display board classes and the stand-alone classes.

STAND-ALONE CLASSES

Stand-alone items are items that are made to enhance the discipline, such as a quiver, gun case, gun stand, etc. No display boards or decorative items are allowed in the Stand-Alone Classes.

No live ammo, broadheads (ex: arrowheads), knives, functional or nonfunctional firearms or bows will be allowed to be displayed.

ARCHERY

Class 1328 Archery Stand Alone	Jr.
Class 1329 Archery Stand Alone	Int.
Class 1330 Archery Stand Alone	Sr.

AIR RIFLE

Class 1331 Air Rifle Stand Alone	Jr.
Class 1332 Air Rifle Stand Alone	Int.
Class 1333 Air Rifle Stand Alone	Sr.

SHOTGUN

Class 1334 Shotgun Stand Alone	Jr.
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Class 1335 Shotgun Stand Alone	Int.
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Class 1336 Shotgun Stand Alone	Sr.
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AIR PISTOL

Class 1337 Air Pistol Stand Alone	Jr.
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Class 1338 Air Pistol Stand Alone	Int.
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Class 1339 Air Pistol Stand Alone	Sr.
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.22 RIFLE

Class 1340 .22 Rifle Stand Alone	Jr.
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Class 1341 .22 Rifle Stand Alone	Int.
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Class 1342 .22 Rifle Stand Alone	Sr.
----------------------------------	-----

.22 PISTOL

Class 1343 .22 Pistol Stand Alone	Jr.
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Class 1344 .22 Pistol Stand Alone	Int.
-----------------------------------	------

Class 1345 .22 Pistol Stand Alone	Sr.
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WESTERN HERITAGE

Class 1346 Western Heritage Stand Alone	Jr.
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Class 1347 Western Heritage Stand Alone	Int.
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Class 1348 Western Heritage Stand Alone	Sr.
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OUTDOOR SKILLS

Class 1349 Outdoor Stand-Alone	Jr.
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Class 1350 Outdoor Stand-Alone	Int.
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Class 1351 Outdoor Stand-Alone	Sr.
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BLACK POWDER MUZZLELOADING

Class 1352 Muzzleloading Stand Alone	Jr.
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Class 1353 Muzzleloading Stand Alone	Int.
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Class 1354 Muzzleloading Stand Alone	Sr.
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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 Shooting Sports Decorative Item	Jr.
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Class 1356 Shooting Sports Decorative Item	Int.
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Class 1357 Decorative Item **Shooting Sports** Sr.

All exhibits will consist of the following:

A. Completed e-Record for the discipline exhibited presented in a sturdy binder/notebook.

B. Specific discipline e-Record is required. It can be found at:

<http://co4h.colostate.edu/program-areas/colorado-4-h-project-information/>

C. A Discipline Record Log Sheet is required. It can be found at:

<http://co4h.colostate.edu/program-areas/colorado-4-h-project-information/>

D. Display Board Exhibits: One display board illustrating something learned in the project this year. The standardized display board size of 4 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of display board.

For Stand-Alone Exhibits: One article which you have made as a part of the project this year. (Examples: gun stocks, decoys, quivers, but not limited to just these.) No live ammo, broadheads (ex: arrowheads), knives, functional or nonfunctional firearms or bows will be allowed to be displayed. The display will be a maximum size of 3 feet wide, 3 feet deep and 7 feet in height and sit stable as the item is intended for display.

For Decorative Exhibit Items: One article which you have made as a part of the project this year. This item would be considered a decorative item (lamps, shelves, jewelry, artwork, etc.). The display will be a maximum size of 3 feet wide, 3 feet deep and 7 feet in height and sit stable as the item is intended for display.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

SPORTFISHING

Note: Please read 4-H Project Exhibit Rules on page 2.

- Exhibits may include stand-alone items such as hand-wrapped rods or hand-made lures.**
- Exhibit of record kept during the year and display illustrating a chosen aspect of skill area is required. Exhibits may include a display board or a stand-alone item such as hand-wrapped rods or hand-made lures. A display board is to be a specific skill level area related to the exhibit. When using a display board, it is strongly recommended to use photos, drawings or other illustrations rather than actual items (i.e., rods, reels, other tackle or accessories). Educational materials should not extend beyond the edges of display boards. The standardized display board size of 4 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board. 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.**
- No knives are to be displayed.
- Members may have entries in both the display board classes and the stand-alone classes.**
- For those members who are exhibiting both a display board and a stand-alone, they may copy their e-Record. Each exhibit must have an e-Record. Be sure to highlight what you are exhibiting in your e-Record.**
- Stand-alone items must not exceed 3 feet in width and depth and 7ft in height. The item must be stable when standing to be displayed. If an exhibit is larger than these dimensions you may use a notebook as the exhibit and explain how and what was made.**

SPORTFISHING DISPLAY BOARD CLASSES

TAKE THE BAIT—UNIT 1

- Class 1401 Take the Bait **Display Board Unit 1** Jr.
- Class 1402 Take the Bait **Display Board Unit 1** Int.
- Class 1403 Take the Bait **Display Board Unit 1** Sr.

REEL IN THE FUN—UNIT 2

- Class 1404 Reel in the Fun **Display Board Unit 2** Jr.

Class 1405 Reel in the Fun **Display Board Unit 2** Int.

Class 1406 Reel in the Fun **Display Board Unit 2** Sr.

CAST INTO THE FUTURE—UNIT 3

Class 1407 Cast into the Future **Display Board Unit 3** Jr.

Class 1408 Cast into the Future **Display Board Unit 3** Int.

Class 1409 Cast into the Future **Display Board Unit 3** Sr.

Members may have entries in both the display board classes and the stand-alone classes.

SPORTFISHING STAND ALONE CLASSES

These classes are for stand-alone items only. No display boards are allowed in these classes.

TAKE THE BAIT—UNIT 1

- Class 1410 **Take the Bait** Stand Alone **Unit 1** Jr.
- Class 1411 **Take the Bait** Stand Alone **Unit 1** Int.
- Class 1412 **Take the Bait** Stand Alone **Unit 1** Sr.

REEL IN THE FUN—UNIT 2

- Class 1413 **Reel in the Fun** Stand Alone **Unit 2** Jr.
- Class 1414 **Reel in the Fun** Stand Alone **Unit 2** Int.
- Class 1415 **Reel in the Fun** Stand Alone **Unit 2** Sr.

CAST INTO THE FUTURE—UNIT 3

- Class 1416 **Cast into the Future** Stand Alone **Unit 3** Jr.
- Class 1417 **Cast into the Future** Stand Alone **Unit 3** Int.
- Class 1418 **Cast into the Future** Stand Alone **Unit 3** Sr.

All exhibits will consist of the following:

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

B. Include the following information on the project information page.

- Record each fishing experience:
 - date
 - location
 - type (pond, lake, reservoir, stream, river or other),
 - name of body of water

- e. if you caught a fish (if no, what do you think the reason was for not catching fish),
 - f. if yes, include the following weather information about the day: time of day, air temperature, water temperature, cloud cover and other information about the weather.
2. Complete a Catch and Release Fish for your five best fish, caught and released or your five best fish kept, depending on legal limits.
- a. species, length (nose to tail)
 - b. girth (around middle)
 - c. approximate weight.
3. Complete a Fishing Journal for each trip (whether you caught fish or not):
- a. rod and reel used
 - b. types of rig/bait/lures used
 - c. technique used
 - d. types of structure fished
 - e. other things you want to remember about this trip.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

WILDLIFE

Note: Please read 4-H Project Exhibit Rules on page 2.

For those members who are exhibiting both a display board and a stand-alone, they may copy their e-record. Each exhibit must have an e-record. Be sure to highlight what you are exhibiting in your e-Record.

role of predators, types of bird feed, or urban wildlife challenges.

E. **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.

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

WILDLIFE CONSERVATION—UNIT 1—The Worth of Wild Roots

Class 1501 The Worth of Wild Roots **Unit 1** Jr.

Class 1502 The Worth of Wild Roots **Unit 1** Int.

Class 1503 The Worth of Wild Roots **Unit 1** Sr.

WILDLIFE CONSERVATION—UNIT 2—Living Wild in an Ecosystem

Class 1504 Living Wild in an Ecosystem **Unit 2** Jr.

Class 1505 Living Wild in an Ecosystem **Unit 2** Int.

Class 1506 Living Wild in an Ecosystem **Unit 2** Sr.

WILDLIFE CONSERVATION—UNIT 3—Managing in a World with You and Me

Class 1507 Managing in a World **Unit 3** Jr.

Class 1508 Managing in a World **Unit 3** Int.

Class 1509 Managing in a World **Unit 3** Sr.

STAND-ALONE ITEMS (For all units)

Class 1510 **Wildlife** Stand-Alone Item Jr.

Class 1511 **Wildlife** Stand-Alone Item Int.

Class 1512 **Wildlife** Stand-Alone Item Sr.

All exhibits will consist of the following:

A. Completed Wildlife e-Record presented 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. **Follow the standardized display board size of 4 ft. x 3 ft.** No additional items may be included in front of the display board. Possible topics could include but not limited to: species found in Colorado, wildlife habitats,

BEEKEEPING

Note: Please read 4-H Project Exhibit Rules on page 2.

BEEKEEPING—UNIT 1

Class 1601 Beekeeping Unit 1	Jr.
Class 1602 Beekeeping Unit 1	Int.
Class 1603 Beekeeping Unit 1	Sr.

All exhibits will consist of the following:

- A. One sturdy binder/notebook that contains the completed Beekeeping Unit 1 e-Record.
- B. Exhibit one of the following topics on a display board:
1. Flowers used to make honey (display pressed flowers from 10 different Colorado plants that bees use for making honey)
 2. Uses of honey and beeswax, past and present
 3. Setting up a beehive
 4. Safe handling of bees
 5. History of beekeeping

The standardized display board size of 4 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

BEEKEEPING—UNIT 2

Class 1604 Beekeeping Unit 2	Jr.
Class 1605 Beekeeping Unit 2	Int.
Class 1606 Beekeeping Unit 2	Sr.

All exhibits will consist of the following:

- A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.
- B. Exhibit one of the following:
Working with honeybees (present a topic from your manual to teach about working with honeybees (example: Regional Differences of Beekeeping). Use your knowledge and creativity to display this information on a display board. The standardized display board size of 4 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of the display board.
- C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

BEEKEEPING—UNIT 2 (STAND-ALONE EXHIBITS)

EXTRACTED HONEY

Class 1607	Extracted Honey Unit 2	Jr.
Class 1608	Extracted Honey Unit 2	Int.
Class 1609	Extracted Honey Unit 2	Sr.

- A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.
- B. Exhibit: Extracted honey (2 one-pound jars, shown in glass or clear plastic with screw tops). Jars must be labeled with name, county, class, where honey was extracted and date.
- C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

CHUNK HONEY

Class 1610	Chunk Honey Unit 2	Jr.
Class 1611	Chunk Honey Unit 2	Int.
Class 1612	Chunk Honey Unit 2	Sr.

- A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.
- B. Exhibit: Chunk Honey (comb in jar shown in 2 one-pound jars wide mouth glass or clear plastic). Jars must be labeled with name, county, class, where honey was taken and date.
- C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

CUT COMB HONEY

Class 1613	Cut Comb Honey Unit 2	Jr.
Class 1614	Cut Comb Honey Unit 2	Int.
Class 1615	Cut Comb Honey Unit 2	Sr.

- A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.
- B. Exhibit: Cut Comb Honey (2 one-pound boxes, usually 4 ½" x 4 ½" in size). Jars must be labeled with name, county, class, where honey was taken and date.
- C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

WOODEN WARE

Class 1616	Wooden Ware Unit 2	Jr.
Class 1617	Wooden Ware Unit 2	Int.
Class 1618	Wooden Ware Unit 2	Sr.

A. One sturdy binder/notebook that contains the completed Beekeeping Units 2-4 e-Record.

B. Exhibit: Wooden Ware examples – toolbox, hive components, etc. Item must be labeled with name, county and class.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

BEEKEEPING—UNIT 3

Class 1619	Beekeeping Unit 3	Jr.
Class 1620	Beekeeping Unit 3	Int.
Class 1621	Beekeeping Unit 3	Sr.

All exhibits will consist of the following:

A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.

B. Exhibit: Prepare an education display board or notebook about honeybees or beekeeping (example topics: diseases, seasonal colony management, etc.). Use your knowledge and creativity to display this information on a display board. The standardized display board size of 4 ft. x 3 ft. is to be used with 4-H projects. No additional items may be included in front of display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

BEEKEEPING—UNIT 3 (STAND-ALONE EXHIBITS)

EXTRACTED HONEY

Class 1622	Extracted Honey Unit 3	Jr.
Class 1623	Extracted Honey Unit 3	Int.
Class 1624	Extracted Honey Unit 3	Sr.

Exhibit will consist of the following:

A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.

B. Exhibit: Extracted Honey – 2 one-pound jars (glass or clear plastic) shown as described in

Beekeeping Unit 2. Jars must be labeled with name, county, class, where honey was taken and date.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

CHUNK HONEY

Class 1625	Chunk Honey Unit 3	Jr.
Class 1626	Chunk Honey Unit 3	Int.
Class 1627	Chunk Honey Unit 3	Sr.

A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.

B. Exhibit: Chunk Honey (comb in jar) – 2 one-pound jars (wide-mouth glass or clear plastic) shown as described in Beekeeping Unit 2. Jars must be labeled with name, county, class, where honey was taken and date.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

CUT COMB HONEY

Class 1628	Cut Comb Honey Unit 3	Jr.
Class 1629	Cut Comb Honey Unit 3	Int.
Class 1630	Cut Comb Honey Unit 3	Sr.

A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.

B. Exhibit: Cut-Comb Honey – 2-one-pound boxes. Boxes are usually 4 ½" x 4 ½" (shown as described in Beekeeping Unit 2). Boxes must be labeled with name, county, class, where honey was taken and date.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

COMB HONEY

Class 1631	Comb Honey Unit 3	Jr.
Class 1632	Comb Honey Unit 3	Int.
Class 1633	Comb Honey Unit 3	Sr.

A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.

B. Exhibit: Comb Honey – 2 sections (honey built by bees in frames of wood commonly called "sections"). Boxes are usually 4 ½" x 4 ½" (shown as described in Beekeeping Unit 2). Sections must be labeled with name, county, class, where taken and date.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

WOODEN WARE

Class 1634 **Wooden Ware Unit 3** Jr.

Class 1635 **Wooden Ware Unit 3** Int.

Class 1636 **Wooden Ware Unit 3** Sr.

A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.

B. Exhibit: Wooden Ware examples – tool box, hive components, etc. Item must be labeled with name, county, class, and description of item.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

ADVANCED BEEKEEPING—UNIT 4 (Must have at least 2 years of beekeeping project experience and have your own hives.)

Class 1637 **Advanced Beekeeping Unit 4** Int.

Class 1638 **Advanced Beekeeping Unit 4** Sr.

All exhibits will consist of the following:

A. One sturdy binder/notebook that contains the completed Beekeeping Units 2–4 e-Record.

B. A detailed notebook describing your project including your goals, plans, accomplishments and your evaluation of results. You may use pictures or any records you have kept that provides evidence of your accomplishments. This notebook is your main project exhibit and will count for 75 percent of the scoring. If an item was made as part of your project, a sample may be displayed as further evidence of the quality of your project. Display must not require over a 1'x1' area or consist of more than three items.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and the quality of the exhibit (75 percent).

COMMUNICATION, ARTS, & LEISURE SCIENCES

CERAMICS

Note: Please read 4-H Project Exhibit Rules on page 2.

Project Exhibit Rules:

1. One piece consists of no more than one item with lid (i.e., sugar bowl with lid). More than one piece is considered a set. Pieces in a set must be related.
2. All work must be done by the member, including the cleaning of greenware or soft bisque used in the Porcelain Doll Unit.
3. A member repeating any unit must learn new skills.
4. All ceramic pieces must be free for close inspection by the judge (*i.e., flowers should not be fastened with floral clay in a flowerpot; doll's clothing must be easily removed*). If not, the piece/pieces will be disqualified.
5. Completed e-Record must be entered with the exhibit piece.
6. **Bisque option is for items that are already cleaned and fired and can be exhibited in Units 1, 2, and 4.**

GLAZES—UNIT 1 – includes glazes on earthenware, stoneware, and porcelain.

Class 1701 Glazes	Unit 1	Jr.
Class 1702 Glazes	Unit 1	Int.
Class 1703 Glazes	Unit 1	Sr.
Class 1704 Glazes	Bisque Option Unit 1	Jr.
Class 1705 Glazes	Bisque Option Unit 1	Int.
Class 1706 Glazes	Bisque Option Unit 1	Sr.

All exhibits will consist of the following:

- A. Completed Ceramics e-Record presented in a sturdy binder/notebook.
- B. Two completed learning projects with information listed on the Ceramic page.
- C. Include at least three technique sheets for completed project. Technique sheet should have enough information included so the exhibitor or other

persons would be able to make a project very similar by following the instructions. You should have a technique sheet with each piece you exhibit.

The technique sheet should include:

1. A list of all tools and brushes used. Sizes should be included, if applicable.
2. A list of brand names, numbers and colors used.
3. A list of steps;
 - a. If the piece was bisque-fired before application of color and to what cone size or temperature.
 - b. How the color/colors were applied and number of coats. The cone size or temperature the color/colors were fired.
 - c. A list of other products used.

D. One piece or set showing techniques learned.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

UNDERGLAZES—UNIT 2 – includes underglazes on earthenware, stoneware, and porcelain.

Class 1707 Underglazes	Unit 2	Jr.
Class 1708 Underglazes	Unit 2	Int.
Class 1709 Underglazes	Unit 2	Sr.
Class 1710 Underglazes	Bisque Option Unit 2	Jr.
Class 1711 Underglazes	Bisque Option Unit 2	Int.
Class 1712 Underglazes	Bisque Option Unit 2	Sr.

All exhibits will consist of the following:

- A. Complete Ceramics e-Record presented in a sturdy binder/notebook.
 - B. Two completed learning projects with information listed on the Ceramic page.
 - C. Include at least three technique sheets for completed project. Technique sheet should have enough information included so the exhibitor or other persons would be able to make a project very similar by following the instructions. You should have a technique sheet with each piece you exhibit.
- The technique sheet should include:
1. A list of all tools and brushes used. Sizes should be included, if applicable.
 2. A list of brand names, numbers and colors used.
 3. A list of steps;
 - a. If the piece was bisque-fired before application of color and to what cone size or temperature.

- b. How the color/colors were applied and number of coats. The cone size or temperature the color/colors were fired.
- c. A list of other products used.

D. One piece or set showing techniques learned.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

OVERGLAZES—UNIT 3 – includes overglazes on earthenware, stoneware, and porcelain.

Class 1713 Overglazes **Unit 3** Jr.

Class 1714 Overglazes **Unit 3** Int.

Class 1715 Overglazes **Unit 3** Sr.

All exhibits will consist of the following:

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

B. Two completed learning projects with information listed on the Ceramic page.

C. Include at least three technique sheets for completed project. Technique sheet should have enough information included so the exhibitor or other persons would be able to make a project very similar by following the instructions. You should have a technique sheet with each piece you exhibit.

The technique sheet should include:

1. A list of all tools and brushes used. Sizes should be included, if applicable.
2. A list of brand names, numbers and colors used.
3. A list of steps:
 - a. If the piece was bisque-fired before application of color and to what cone size or temperature.
 - b. How the color/colors were applied and number of coats. The cone size or temperature the color/colors were fired.
 - c. A list of other products used.

D. One piece or set showing techniques learned.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

UNFIRED FINISHES—UNIT 4 – Includes unfired finishes on earthenware, stoneware, and porcelain.

Class 1716 Unfired Finishes **Unit 4** Jr.

Class 1717 Unfired Finishes **Unit 4** Int.

Class 1718 Unfired Finishes **Unit 4** Sr.

Class 1719 **Unfired** Bisque Option **Unit 4** Jr.

Class 1720 **Unfired** Bisque Option **Unit 4** Int.

Class 1721 Unfired Bisque Option **Unit 4** Sr.

All exhibits will consist of the following:

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

B. Two completed learning projects with information listed on the Ceramic page.

C. Include at least three technique sheets for completed project. Technique sheet should have enough information included so the exhibitor or other persons would be able to make a project very similar by following the instructions. You should have a technique sheet with each piece you exhibit.

The technique sheet should include:

1. A list of all tools and brushes used. Sizes should be included, if applicable.
2. A list of brand names, numbers and colors used.
3. A list of steps:
 - a. If the piece was bisque-fired before application of color and to what cone size or temperature.
 - b. How the color/colors were applied and number of coats. The cone size or temperature the color/colors were fired.
 - c. A list of other products used.

D. One piece or set showing techniques learned.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

PORCELAIN DOLLS—UNIT 5 – includes China paint on polished bisque or glazed porcelain (China). Soft-fired greenware is highly recommended for all doll projects.

Class 1722 Porcelain Dolls **Unit 5** Jr.

Class 1723 Porcelain Dolls **Unit 5** Int.

Class 1724 Porcelain Dolls **Unit 5** Sr.

All exhibits will consist of the following:

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

B. Include a technique sheet for the required skills learned, according to the manual and appropriate for the doll. A technique sheet should have enough information included so the exhibitor or other persons would be able to make a project very similar by following the instructions.

The technique sheet should include:

1. A list of all tools and brushes used. Sizes should be included, if applicable.
2. A list of brand names, numbers and colors used.
3. A list of steps:
 - a. If the piece was bisque-fired before application of color and to what cone size or temperature.
 - b. How the color/colors were applied and number of coats. The cone size or temperature the color/colors were fired.
 - c. A list of other products used.

C. One piece or set showing techniques learned.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

HAND-CONSTRUCTED—UNIT 6 **Stone or Earthen ware**

Class 1725 Hand-Constructed **Unit 6** Jr.

Class 1726 Hand-Constructed **Unit 6** Int.

Class 1727 Hand-Constructed **Unit 6** Sr.

All exhibits will consist of the following:

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

B. Include a technique sheet for the completed project. Technique sheet should have enough information included so the exhibitor or other persons would be able to make a project very similar by following the instructions.

The technique sheet should include:

1. A list of all tools and brushes used. Sizes should be included, if applicable.
2. A list of brand names, numbers and colors used.
3. A list of steps:
 - a. If the piece was bisque-fired before application of color and to what cone size or temperature.
 - b. How the color/colors were applied and number of coats. The cone size or temperature the color/colors were fired.
 - c. A list of other products used.

C. One piece or set showing techniques learned.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

GLOBAL CITIZENSHIP

Note: Please read 4-H Project Exhibit Rules on page 2.
No Display Boards.

STUDY OF ANOTHER COUNTRY—UNIT 1

- Class 1801 Study of Another Country **Unit 1** Jr.
- Class 1802 Study of Another Country **Unit 1** Int.
- Class 1803 Study of Another Country **Unit 1** Sr.

All exhibits 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.

B. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

HOST A DELEGATE FROM ANOTHER COUNTRY—UNIT 2

- Class 1804 Host a Delegate from Another Country **Unit 2** Jr.
- Class 1805 Host a Delegate from Another Country **Unit 2** Int.
- Class 1806 Host a Delegate from Another Country **Unit 2** Sr.

All exhibits 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 page—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 experience 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.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

YOUTH COUNSELOR FOR INBOUND INTERNATIONAL DELEGATION—UNIT 3

- Class 1807 Youth Counselor **Unit 3** Int.
- Class 1808 Youth Counselor **Unit 3** Sr.

All exhibits 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 (this 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 5 of manual
4. Resources—page 5 of manual

C. Provide information on at least one demonstration or public speaking experience 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.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

EXCHANGE DELEGATE TO ANOTHER COUNTRY—UNIT 4

- Class 1809 Exchange Delegate to Another Country **Unit 4** Int.
- Class 1810 Exchange Delegate to Another Country **Unit 4** Sr.

All exhibits 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 States—page 6 of manual
5. Resources—page 6 of manual

B. Provide information on at least one demonstration or public speaking experience 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.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

LEADERSHIP

Note: Please read 4-H Project Exhibit Rules on page 2.

LEADERSHIP SKILLS YOU NEVER OUTGROW

Class 1901 **Leadership Skills You Never Outgrow** Jr.

All exhibits will consist of the following:

A. A sturdy three-ring notebook including a completed e-Record with the following additional information:
Complete at least one activity in the following sections of the manual and either place the pages or make copies of the pages and place in the e-Record:

- Understanding Self
- Communications
- Getting Along with Others
- Making Decisions
- Plus, one of the exhibitor's choices from the manual

B. A display board summarizing a skill area, activity, or leadership topic the member learned. **The standardized display board size of 4 ft. x 3 ft.** is to be used with 4-H projects. No additional items may be included in front of the display board.

C. Project will be evaluated on the quality of the information completed in the e-Record (50 percent) and quality of the exhibit (50 percent).

LEADERSHIP ROAD TRIP

Class 1902 Leadership Road Trip Int.

Class 1903 Leadership Road Trip Sr.

All exhibits will consist of the following:

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

1. Complete all 12 activities in the **Leadership Road Trip** manual and either include the manual or make copies of the pages and place in the e-record.
2. Summaries or description of at least two *Learning Experiences* OR *More Challenges* from the Leadership Road Trip manual.

B. A display board summarizing a skill area, activity, or leadership topic the member learned. **The standardized display board size of 4 ft. x 3 ft.** is to be used with 4-H projects. No additional items may be included in front of the display board.

OR

A video summarizing a skill area, activity, or leadership topic the member learned. The video must be less than

10 minutes in length and **a link to view the video must be provided.**

C. Project will be evaluated on the quality of the information completed in the e-Record (50 percent) and quality of the exhibit (50 percent).

PUT LEADERSHIP TO PRACTICE

Class 1904 Put Leadership to Practice Int.
(Club Leadership I Manual)

Class 1905 Put Leadership to Practice Sr.
(Club Leadership I Manual)

All exhibits will consist of the following:

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

1. Complete all 10 activities and Talking Over Activities in the **Club Leadership I Manual** and either include the manual or make copies of the pages and place in the e-record.
2. Summaries or description of at least two *Learning Experiences* OR *More Challenges* from the Club Leadership I manual.
3. Summary or description of at least one individualized goal to benefit your leadership skills.

B. A display board summarizing a skill area, activity, or leadership topic the member learned. **The standardized display board size of 4 ft. x 3 ft.** is to be used with 4-H projects. No additional items may be included in front of the display board.

OR

A video summarizing a skill area, activity, or leadership topic the member learned. The video must be less than 10 minutes in length and **a link to view the video must be provided.**

C. Project will be evaluated on the quality of the information completed in the e-Record (50 percent) and quality of the exhibit (50 percent).

REFINING LEADERSHIP SKILLS

Class 1906 Refining Leadership Skills Sr.
(Club Leadership II Manual)

All exhibits will consist of the following:

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

1. Complete all 11 activities in the **Club Leadership II Manual** and either include the manual or make copies of the pages and place in the e-Record.

2. Summaries or description of at least two *Learning Experiences* OR *More Challenges* from the Club Leadership II manual.
3. Summary or description of at least two individualized goals to benefit your leadership skills.

B. A display board summarizing a skill area, activity, or leadership topic the member learned. **The standardized display board size of 4 ft. x 3 ft.** is to be used with 4-H projects. No additional items may be included in front of the display board.

OR

A video summarizing a skill area, activity, or leadership topic the member learned. The video must be less than 10 minutes in length and **a link to view the video must be provided.**

C. Project will be evaluated on the quality of the information completed in the e-Record (50 percent) and quality of the exhibit (50 percent).

COMMUNITY SERVICE

Class **1907** Community Service Project Sr.
(My Hands for Larger Service Manual)

All exhibits will consist of the following:

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

1. Complete all 9 activities in the ***My Hands for Larger Service Manual*** and either include the manual or make copies of the pages and place in the e-Record.

B. A display board summarizing a completed community service project. **The standardized display board size of 4 ft. x 3 ft.** is to be used with 4-H projects. No additional items may be included in front of the display board.

OR

A video summarizing a skill area, activity, or leadership topic the member learned. The video must be less than 10 minutes in length and **a link to view the video must be provided.**

C. Project will be evaluated on the quality of the information completed in the e-Record (50 percent) and quality of the exhibit (50 percent).

LEATHERCRAFT

Note: Please read 4-H Project Exhibit Rules on page 2.

Project Exhibit Rules for All Units:

1. Put name, age, and county on back of exhibit board **and on tag attached to individual exhibit articles.**
2. Indicate in e-Record whether articles are made from a kit or are self-cut and designed by the member.
3. A set means several things of the same kind that belong, or are used, together (i.e., six matching coasters, belt, and buckle with matching designs, etc.).
4. **It is suggested (not required) to do Units 1-3 in order.** Units 4-9 may be taken in any order, and members in Units 4-9 may exhibit in more than one unit, provided the member is enrolled in and has completed the requirements of each of the units exhibited in. **The primary skill being developed (the new technique you're learning) in the project will help determine which unit to exhibit in.**
5. Definitions:
 - Background dyeing**—dyeing a solid color to the area tooled with the backgrounder.
 - Carving**—is where you cut into the leather (usually with a swivel knife) as part of the design you are tooling.
 - Clear finish**—is a top finish for tooling leather that has no color in it to protect leather. Some are waterproof, and some are not. For example, oil (no color added), leather finish spray or wipe (no color).
 - Color shading**—is using shades of color to make the design look more realistic. For example, use darker and lighter shades of a color on a tooled flower, animal or figure of any kind to make it look more realistic. **Paints will be accepted.**
 - Decorative swivel knife carving**—is carving a pattern that just uses the swivel knife to make a line drawing. Shading is done with more lines (hatching).
 - Figure carving**—is the carving of figures (i.e., persons, animals, objects, etc.).
 - Lace**—is flat with a shiny side and a rough side.
 - Pictorial carving**—is the adding of background areas (i.e., trees, fence, mountains, grass, etc.) to the carving to make the picture complete. (Note: All pictures meant to be hung need to be complete with hardware to hang for display, whether framed or not.)

Sewing thread—is round thread, waxed or not.

Solid color dyeing—is dyeing the whole project the same color. For example, tool a belt and then dye it all black or make a book cover and dye it all one color.

Staining/Antiquing—will add a little color and bring out and enhance cuts, tooling and stamping. Usually, it is a cream that is applied and wiped off.

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

Traditional carving—includes floral, scrolls, oak leaf, maple leaf type patterns.

Two tone finish—is a technique where an area has a **clear finish**, which will give a two-tone effect after an additional antique finish is applied.

INTRODUCTION TO LEATHERCRAFT AND CREATIVE STAMPING—UNIT 1

Class 2001 Intro to Leathercraft & Creative Stamping Jr.

Class 2002 Intro to Leathercraft & Creative Stamping Int.

Class 2003 Intro to Leathercraft & Creative Stamping Sr.

All exhibits will consist of the following:

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

B. Exhibit **two completed leather** articles. **Place the exhibit items on a board 12"x18"x 1/8" or 1/4" (preferably pegboard)** to which items are attached by means of lacing or thread, **so items are less likely to be misplaced during display.**

One each from categories below:

1. One **completed** article or one set of articles on a **single layer of** leather. Examples: belt, bookmark, wrist bracelet, set of coasters.
2. One completed article with at least two pieces of leather that are hand sewed together with lacing and/or thread stitching. Examples: coin purse, knife sheath/case, simple purse, wallet. Pre-cut or self-cut kits are allowed.

C. Apply a **clear finish** to complete your article.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

Not Permitted: Carving, solid-color dyeing, color shading, antiquing, or machine sewing.

BEGINNING LEATHER CARVING—UNIT 2

Class 2004 Beginning Leather Carving	Jr.
Class 2005 Beginning Leather Carving	Int.
Class 2006 Beginning Leather Carving	Sr.

All exhibits will consist of the following:

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

B. Exhibit three samples and one article. Any floral pattern can be used as long as it meets the requirements of this unit. **Exhibit board 12"x18"x 1/8" or 1/4" (preferably pegboard)** to which items are attached by means of lacing or thread:

- Three samples with labels showing:
Sample 1: Use of swivel knife and camouflage tool.
Sample 2: Use of swivel knife, camouflage tool, pear shader, beveler and veiner.
Sample 3: Use of swivel knife, camouflage tool, pear shader, beveler and veiner, seeder, backgrounder, and decorative cuts. **Note: The labels should reflect the tools used for each sample.**
- One** completed article using tools and skills studied in Unit 2 with double loop lacing.

C. Apply a clear leather finish to complete your article and sample 3 (optional for samples 1 and 2, so one could complete samples being exhibited later and then apply a finish).

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

Not Permitted: Pictorial carving or figure carving (realistic animal and human figures), staining/antiquing, solid color dyeing, color shading, or machine stitching.

INTERMEDIATE LEATHER CARVING—UNIT 3

Class 2007 Intermediate Leather Carving	Jr.
Class 2008 Intermediate Leather Carving	Int.
Class 2009 Intermediate Leather Carving	Sr.

All exhibits will consist of the following:

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

B. **One** completed article, matching set, or picture/wall hanging that includes at least one of the major skills: **traditional carving**, inverted **carving**, or silhouette **carving** techniques. (Note: All pictures meant to be hung

need to be complete with hardware to hang for display, whether framed or not.)

C. Clear finish, staining/antiquing, two tone finishes, and background dyeing are allowed in Unit 3. No machine stitching allowed. Lacing and hand stitching are optional in this unit.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

Not Permitted: Pictorial carving or figure carving (realistic animal and human figures), solid color dyeing, color shading, or machine stitching.

ADVANCED UNITS 4 – 9 **Note: The advanced units do not have to be taken in order.**

ADVANCED STAMPING—UNIT 4

Class 2010 Advanced Stamping	Jr.
Class 2011 Advanced Stamping	Int.
Class 2012 Advanced Stamping	Sr.

All exhibits will consist of the following:

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

B. **One** completed article, matching set, or picture/wall hanging using an advanced stamping design. Minimal **carving** is allowed for effect (i.e., use swivel knife to carve border, letters, brands, etc.). (Note: All pictures meant to be hung need to be complete with hardware to hang for display, whether framed or not.)

C. Lacing, hand sewing, or machine sewing are optional in Unit 4. **Note: Any dyeing, color shading, antique/stain, and finishing techniques may be used in units 4-9.**

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

ADVANCED LEATHER CARVING—UNIT 5

Class 2013 Advanced Leather Carving	Jr.
Class 2014 Advanced Leather Carving	Int.
Class 2015 Advanced Leather Carving	Sr.

All exhibits will consist of the following:

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

B. One completed article, matching set, or picture/wall hanging using advanced **traditional carving, figure carving, pictorial carving, decorative swivel knife carving**, embossing or filagree work. (Note: All pictures meant to be hung need to be complete with hardware to hang for display, whether framed or not.)

C. Lacing, hand sewing, or machine sewing are optional in Unit 5. **Note: Any techniques of dyeing, color shading, stain/antiquing, and finishing may be used in units 4-9.**

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

SEWING LEATHER—UNIT 6

Class **2016** Sewing Leather Jr.

Class **2017** Sewing Leather Int.

Class **2018** Sewing Leather Sr.

All exhibits will consist of the following:

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

B. One completed article, matching set or garment made primarily by sewing leather. The focus of this unit is developing sewing construction skills. Judging will be based more on construction and sewing than on tooling.

C. All lacing, hand sewing, or machine sewing techniques are acceptable in Unit 8. **Note: Any techniques of dyeing, color shading, stain/antiquing, and finishing may be used in units 4-9.**

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

BRAIDING AND UN-TOOLED LEATHER—UNIT 7

Class **2019** Braiding and Un-tooled Leather Jr.

Class **2020** Braiding and Un-tooled Leather Int.

Class **2021** Braiding and Un-tooled Leather Sr.

All exhibits will consist of the following:

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

B. One completed article, matching set or picture/wall hanging constructed with un-tooled leather using one or more of these leather art techniques: Lacing, braiding, expanding, sculpting, or molding leather. (Minimal tooling for effect, such as names, initials, or brands will be accepted.)

C. Lacing, hand sewing, or machine sewing are optional in Unit 7. **Note: Any techniques of dyeing, color shading, stain/antiquing, and finishing may be used in units 4-9.**

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

MASTER LEATHERCRAFT—UNIT 8

Class **2022** Master Leathercraft Jr.

Class **2023** Master Leathercraft Int.

Class **2024** Master Leathercraft Sr.

All exhibits will consist of the following:

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

B. One completed article, matching set or picture/wall hanging using multiple leather working techniques.

C. Lacing, hand sewing, or machine sewing are optional in Unit 6. **Note: Any techniques of dyeing, color shading, stain/antiquing, and finishing may be used in units 4-9.**

Some examples of using multiple leathercraft techniques on a project:

1. An article with a stamping design that included an area of figure carving.
 2. A carved picture with a stamped frame.
 3. A floral carving with areas of geometric stamping.
 4. A purse with basket stamping and an embossed horse head on the front flap.
 5. A belt with silhouette carved horses and a name in the back with filigree.
- The combinations of techniques are endless!

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

MAKING AND REBUILDING SADDLES—UNIT 9

Class **2025** Making and Rebuilding Saddles Jr.

Class **2026** Making and Rebuilding Saddles Int.

Class **2027** Making and Rebuilding Saddles Sr.

All exhibits will consist of the following:

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

B. One completed saddle (a new build or rebuild of existing saddle). The leather may be either tooled or un-tooled and may be finished in any suitable fashion.

C. All lacing, hand sewing, or machine sewing techniques are acceptable in Unit 9. **Note: Any techniques of dyeing, color shading, stain/antiquing, and finishing may be used in units 4-9.**

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

PHOTOGRAPHY

Note: Please read 4-H Project Exhibit Rules on page 2.

Project Exhibit Rules:

1. For all units, submit photo material for the current unit being entered. Do not submit previous photos or records **unless requested for an activity in the unit.**

2. 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. The maximum size for the matted only picture is no larger than 8"x10" (no frame or glass)

3. All photos in the photo journal/notebook 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.

4. **Display photo will be used to display at state fair, so be careful when picking your best photo. Notebooks will not be displayed**

5. Photo Journal Binder/notebooks: Use a hardback, three-ring notebook up to 3 inches in size for all units. No posters or oversized books. Do not use plastic covers on any pages in the unit. All materials must fit within the notebook. Additional pages can be added as needed to exhibit your photos. **Notebooks will be judged but will not be displayed.**

6. For photo exhibits in Units 1-3 follow the tips in the manuals. **Photos can be mounted on cardstock.**

7. Label format for UNITS 1-4:

Camera used _____
Activity # _____
Photo # (left to right and top to bottom) _____
Subject _____
Date Photo Taken _____

8. Label Format for UNIT 6

Photo # or Media _____
Used _____
Subject _____
Date Photo Taken or Date of _____
Film _____
Notes _____

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

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 photo in a frame.

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

- Member name
- Member County
- Subject
- Date photo Taken
- Notes

PHOTOGRAPHY BASICS—UNIT 1

Class 2101 Photography Basics **Unit 1** Jr.

Class 2102 Photography Basics **Unit 1** Int.

Class 2103 Photography Basics **Unit 1** Sr.

All exhibits 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. All photos must be labeled as follows:

1. Camera used
2. Activity #
3. Photo# (left to right and top to bottom)
4. Subject
5. Date Photo Taken

C. Best Photo – 5x7 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 tripod
3. Activity 3 – 6 photos:

- a. 3 photos taken outdoors - 1 at noon, 1 at 4pm and 1 at 8pm
- b. 3 photos taken indoors – 1 at 10am, 1 at Noon and 1 at 2pm

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; use 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 on page 32 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.

8. 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.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

PHOTOGRAPHY BASICS—UNIT 2

Class 2104 Photography Basics Unit 2 Jr.

Class 2105 Photography Basics Unit 2 Int.

Class 2106 Photography Basics Unit 2 Sr.

All exhibits 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. All photos must be labeled as follows:

1. Camera used
2. Activity #
3. Photo# (left to right and top to bottom)
4. Subject
5. Date Photo Taken

C. Best Photo – 5x7 matted and ready to hang (no glass or frame).

D. You will include the following photos (total of 31-33 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.

1. Activity 9 – 4 photos:
 - a. 2 photos 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 – clutter 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
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 thing/still-life
 - e. 1 photo of an animal
6. Activity 14 – 3-5 photos:
 - a. 3 to 5 photos displayed in order to tell a story

Note – Plan out your story with a storyboard 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 of your favorite photos taken during your entire time in Photography Basics (including the First and Second

Units). These can be photos you have used for exhibit or photos that you took while experimenting with different photography techniques. Using the Photo Scorecard on page 79, evaluate your own photography and include your evaluation with your exhibit.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

PHOTOGRAPHY— UNIT 3 (NEXT LEVEL)

Class 2107 Next Level Photography Unit 3	Jr.
Class 2108 Next Level Photography Unit 3	Int.
Class 2109 Next Level Photography Unit 3	Sr.

All exhibits 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. **Also include photos of you working on your project in the e-Record photo page.**

B. Completed Photo Journal/Binder. All photos must be labeled as follows:

1. Camera used
2. Activity #
3. Photo# (left to right and top to bottom)
4. Subject
5. Date Photo Taken

C. Best Photo – 5x7 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 **negative** 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.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

PHOTOGRAPHY—UNIT 4 (MASTERING PHOTOGRAPHY)

Class 2110 Mastering Photography Unit 4	Jr.
Class 2111 Mastering Photography Unit 4	Int.
Class 2112 Mastering Photography Unit 4	Sr.

All exhibits 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. **Also include photos of you working on your project in the e-Record photo page.**

B. Completed Photo Journal/Binder. All photos must be labeled as follows:

1. Camera used
2. Activity #
3. Photo# (left to right and top to bottom)
4. Subject
5. Date Photo Taken

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.

D. You will include the following photos (total of 30 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 large f-stop
3. Activity 3 – 2 photos:
 - a. 2 night photos using correct aperture
4. Activity 4 – 1 photos:
 - a. 1 photos 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
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 portrait 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 photo:
 - a. 2 photos showing either astrophotography, underwater or Infrared techniques
13. Activity 13: - 1 photo of joiner
 - a. Make a posterboard joiner using a minimum of 40 photos

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

PHOTOGRAPHY—UNIT 5 (LOW LIGHT)

Class 2113 Low Light Photography Unit 5 Jr.

Class 2114 Low Light Photography Unit 5 Int.

Class 2115 Low Light Photography Unit 5 Sr.

All exhibits 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. All photos must be labeled as follows in your photo journal/binder:

1. Camera used
2. Exposure details
3. Photo# (left to right and top to bottom)
4. Subject
5. Date Photo Taken

C. Three 5"x7" photos mounted on a mat. 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 firework, one long exposure, and so on. Any combination can be done.

E. Maximum size for the matted picture is no larger than 8"x10".

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)

G. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

PHOTOGRAPHY—UNIT 6 (ADVANCED)

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

Class 2116 Advanced Photography Unit 6 Jr.

Class 2117 Advanced Photography Unit 6 Int.

Class 2118 Advanced Photography Unit 6 Sr.

All exhibits 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.

B. All photos must be labeled as follows in your photo journal/binder:

1. Photo #
2. Subject
3. Date Photo Taken
4. Notes

C. Include the following information **on the Advanced Photography Unit 5 Information** page.

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 notebook which illustrates achievements.

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

G. Project will be evaluated on quality of content in the written statement and completion of e-Record (50 percent) and quality of content in notebook (50 percent).

COLORADO 4-H DIGITAL PHOTO CONTEST
Open to all 4-H members. Requirements will be in the Contest Requirements document. 4-H Members will submit their entries through FairEntry.

FILMMAKING

Descriptions of Filmmaking Project Categories:

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 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.
6. **For all videos a link must be provided, so the judge can view the video.**

Class 2206 Narrative Sr.

Documentary

Class 2207 Documentary Jr.

Class 2208 Documentary Int.

Class 2209 Documentary Sr.

Promotional

Class 2210 Promotional Jr.

Class 2211 Promotional Int.

Class 2212 Promotional Sr.

Voices of 4-H History

Class 2213 Voices of 4-H History Jr.

Class 2214 Voices of 4-H History Int.

Class 2215 Voices of 4-H History Sr.

All exhibits will consist of the following:

A. Completed e-Record and binder including story board.

B. Video must be less than 10 minutes in length.

C. Make sure your video is in good taste (like G and PG ratings). Videos may be disqualified if deemed to have questionable content. The 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

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

Animation

Class 2201 Animation Jr.

Class 2202 Animation Int.

Class 2203 Animation Sr.

Narrative

Class 2204 Narrative Jr.

Class 2205 Narrative Int.

SCRAPBOOKING

Note: Please read 4-H Project Exhibit Rules on page 2.

1. Youth may exhibit in one or all classes that they choose.
2. Members who are exhibiting in several classes may copy their e-Record. Each exhibit (class) must have an e-Record. Be sure to highlight what you are exhibiting in your e-Record. Story and pictures must be unit specific.
3. **Members are required to learn/practice the number of techniques required for their age group on the Technique Reflection Page appropriate for their project in the e-Record. They are not required to use the techniques in their exhibit. However, evidence of having learned or practiced those techniques must be in the e-Record, either the piece itself, or a photo of it. The techniques learned and/or practiced should be documented on the Technique Reflection Page.**

Examples of techniques that can be used may include:

- Stickers or Die Cuts
- Tearing or cutting
- Double Photo Matting
- (2) Enlarged Photos (minimum size 5 x7); one must be black and white or sepia.
- Inking/Stamping/Coloring
- Create a border
- Fibers
- Buttons or beads
- Eyelets or brads
- Rub-ons or embossing
- Craft punches
- Chipboard
- Dimensional Design (may use another technique to create dimensional design, such as die-cut and stamping. Does not count as two techniques.)
- Two-page layout, coordinated and themed.
- Memorabilia (refer to manual)
- Trending techniques

SCRAPBOOKING ONE PAGE LAYOUT

Class 2301	One Page Layout	Jr.
Class 2302	One Page Layout	Int.
Class 2303	One Page Layout	Sr.

All exhibits will consist of the following:

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

1. All members will need to complete Technique Reflection Page in Record Book with designated number of techniques based on age. Be sure to explain what you learned, how you learned it, and if you included them in final project. Examples of techniques not used in final project are to be included in record book, either picture or actual technique.
 2. Required activities to include in record book: Jr.: 1 or more, Int.: 2 or more; Sr.: 3 or more
- B. One-page layout scrapbook page 8 ½" x 11" or 12"x 12".
1. Page shall contain techniques from your technique list that you have chosen to use in your project. Create a page that is pleasing to the eye, items are not cluttered, and colors are appropriate to subject matter.
 2. **Must be exhibited in a three-ring binder or scrapbook binder. Only submit the one page to be judged.**
- C. Journaling and titling must be included on the one page.
- D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

SCRAPBOOKING TWO PAGE LAYOUT

Class 2304	Two Page Layout	Jr.
Class 2305	Two Page Layout	Int.
Class 2306	Two Page Layout	Sr.

All exhibits will consist of the following:

- A. Completed e-Record presented in a sturdy binder/notebook.
 1. All members will need to complete Technique Reflection Page in Record Book with designated number of techniques based on age. Be sure to explain what you learned, how you learned it, and if you included them in final project. Examples of techniques not used in final project are to be included in record book, either picture or actual technique.
 2. Required activities to include in record book: Jr.: 1 or more, Int.: 2 or more; Sr.: 3 or more
- B. Designated Two-page layout in 8 ½" x 11" or 12" x 12". Formatted to go together in a set (a two-page spread) that is coordinated by color and design which follows a theme with good logical order.
1. Place the two-page layout in an appropriately sized binder in protective archival safe sleeves.
 2. Pages shall contain techniques from your technique list that you have chosen to use in

your project. Create pages that are pleasing to the eye, items are not cluttered, and colors are appropriate to subject matter.

3. Must be exhibited in a three-ring binder or scrapbook binder. Only submit the two pages to be judged.

C. Journaling and titling must be included on the two-page layout.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

SCRAPBOOKING ALBUM

Class 2307 Album Jr.

Class 2308 Album Int.

Class 2309 Album Sr.

All exhibits will consist of the following:

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

1. All members will need to complete Scrapbook Album Technique Reflection Page in Record Book with designated number of techniques based on age. Be sure to explain what you learned, how you learned it, and if you included them in final project. Examples of techniques not used in final project are to be included in record book, either picture or actual technique.
2. Required activities to include in record book: Jr.: 1 or more, Int.: 2 or more; Sr.: 3 or more

B. Completed album must contain eight (8) pages, designed on both front and back, for a total of sixteen (16) pages for Seniors; a total of six (6) pages, designed on both front and back, for a total of twelve (12) pages for Intermediates; and a total of four (4) pages, designed on both front and back, for a total of eight (8) pages for Juniors.

1. Pages must be exhibited between a sturdy front and back cover with each page in a protective archival safe sleeve. If memorabilia are included, they should be encased in a protective sleeve and must include additional techniques to be part of the page count. For example, if an album contains fifteen pages of layouts and the sixteenth page is memorabilia only with no technique, the album is missing a page and can or will be disqualified.
2. Mark album pages to correspond with the technique reflection page.
3. Album shall follow a theme or be in chronological order.
4. All pages must include Journaling:
 - a. Correct spelling.
 - b. Tell your story: who, what, when, where, and why?

- c. Title each page, or two-page layout.
- d. Album must contain at least one hand-written journal entry; all others may be typed.

5. If adding pages to an album that has already been judged, only submit the pages done within the current 4-H year; do not include pages from past years. Document that this is an ongoing project (i.e., second edition "Seattle" album exhibited in 2016).

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

SCRAPBOOKING—TAG MAKING (For Juniors Only)

Class 2310 Tag Making Jr.

All exhibits will consist of the following:

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

1. All members will need to complete Technique Reflection Page in Record Book with designated number of techniques based on age. Be sure to explain what you learned, how you learned it, and if you included them in final project. Examples of techniques not used in final project are to be included in record book, either picture or actual technique.
2. Required activities to include in record book: Jr.: 1 or more.

B. Set of 5 different hand-made tags following a theme with a maximum size of 3" x 5" per tag displayed on a sturdy 12" x 12" board.

1. Tags shall contain techniques from your technique list that you have chosen to use in your project. Create tags that are pleasing to the eye, items are not cluttered, and colors are appropriate to subject matter.
2. Tags should include a to/from or a greeting.
3. Label tags on your board to correspond with Technique Reflection Page.

C. No commercial based tags can be used.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

SCRAPBOOKING—CARD MAKING (For Intermediates and Seniors Only)

Class 2311 Card Making Int.

Class 2312 Card Making Sr.

All exhibits will consist of the following:

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

1. All members will need to complete Technique Reflection Page in Record Book with designated number of techniques based on age. Be sure to explain what you learned, how you learned it, and if you included them in final project. Examples of techniques not used in final project are to be included in record book, either picture or actual technique.
2. Required activities to include in record book:
Int.: 2 or more; Sr.: 3 or more

B. Set of 4 different hand-made cards following a theme with a maximum size of 4"x 6" per card displayed on a sturdy 12" x 12" board.

1. Cards shall contain techniques from your technique list that you have chosen to use in your project. Create cards that are pleasing to the eye, items are not cluttered, and colors are appropriate to subject matter.
2. Label cards on your board to correspond with Technique Reflection Page.

C. No commercial based tags can be used.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

VISUAL ARTS

Note: Please read 4-H Project Exhibit Rules on page 2.

Exhibit your best design.

There is no limit for years of participation in a unit. Ready-to-hang for pictures means wire secured and heavy enough to hold the picture. NO TAPE!!!

The Visual Arts project has two manuals, Portfolio Pathways and Sketchbook Crossroads. Portfolio Pathways has three chapters: Chapter 1, Painting; Chapter 2, Printing; and Chapter 3, Graphic Design. Sketchbook Crossroads has three chapters: Chapter 1, Drawing; Chapter 2, Fiber Arts; and Chapter 3, Sculpture.

PORTFOLIO PATHWAYS—PAINTING AND PRINTING

Class 2501	Painting and Printing	Jr.
Class 2502	Painting and Printing	Int.
Class 2503	Painting and Printing	Sr.

GRAPHIC DESIGN

Class 2504	Graphic Design	Jr.
Class 2505	Graphic Design	Int.
Class 2506	Graphic Design	Sr.

All exhibits will consist of the following:

- A. Completed e-Record in a sturdy binder/notebook.
- B. Complete a minimum of two art techniques listed under the media of Painting, Printing or Graphic Design. Provide pictures of all completed art techniques on the Visual Arts e-Record. (For example: Art techniques for painting -- acrylics, watercolors, abstracts, sand painting, self-portrait, action painting, oil painting with impasto, scumbling and perspective and encaustic painting. See manual for printing and graphic-design techniques.)
- C. Explain in your 4-H e-Record story what you learned.
- D. Exhibit: display your best art design. Oil paintings and acrylic paintings should be no larger than 16" x 24" canvas and ready to hang (no frames should be used). Watercolor paintings should use small mattes and be framed with glass. The framed watercolor should not be larger than 16" x 24".
- E. Graphic Design exhibit can be a logo or a self - portrait, a blog, advertisement, website, CD or DVD

label, optical illusion, or a notebook of your graphic designs, etc.

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

SKETCHBOOK CROSSROADS—DRAWING, FIBER, AND SCULPTURE

Class 2507	Drawing, Fiber, and Sculpture	Jr.
Class 2508	Drawing, Fiber, and Sculpture	Int.
Class 2509	Drawing, Fiber, and Sculpture	Sr.

All exhibits will consist of the following:

- A. Completed e-Record presented in a sturdy binder/notebook.
- B. Complete a minimum of two art techniques listed under the media of Drawing, Fiber and Sculpture. Provide pictures of all the completed art techniques on the Visual Arts e-Record. (For example: Art techniques for drawing – continuous and contour, shading, perspective, paper choices, colored pencils, pen and ink, calligraphy and cartooning. See manual for fiber and sculpture techniques.)
- C. Explain in your 4-H e-Record story what you learned.
- D. Exhibit: display your best art design or sculpture. Framed drawings shall be no larger than 16" x 24" including the frame and ready to hang. Fiber art should be framed and ready to hang and no larger than 16"x 24".
- E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

CONSUMER SCIENCE

Becky Jacobson.....Superintendent

CAKE DECORATING

Kathy Hettinger.....Superintendent

Note: Please read 4-H Project Exhibit Rules on page 2.

Project Exhibit Rules:

1. Cake should be placed on a very firm, disposable surface (foam core, strong cardboard, plywood, particle board, etc.), cut parallel to the shape of the cake and must be 1½ "on each side from the base of the border, not the cake. The surface should be covered. Freezer paper is not advised because it absorbs grease. The cake board must be covered with a food safe material, such as aluminum foil. If you use decorative or gift wrap paper or fabric, it must be covered in food quality plastic wrap.

2. It is recommended that members learn the basic cake decorating skills included in Units 1-3 before taking any of the more advanced units. Youth may then select the unit which includes the skills they wish to learn.

Units 4-6 do not have to be taken in the order as numbered and are for Juniors, Intermediates, and Seniors. **Units 7-9 do not have to be taken in the order as numbered and are for Intermediates and Seniors. Units 10-12 are for Senior members only.**

3. **Real** cakes are required for Units 1-6. Cake forms are preferred for exhibits in Units 7-10, as they hold up better under state fair conditions.

4. *Once a 4-H member has received a placing in the top 10 or a grand champion, they need to move to another unit because the skills in that unit have already been mastered. Also, if a member repeats a unit, they must show what new skill was learned.*

5. **No non-edible decorations can be used in Units 1-6.**

6. Lower Units (1-3) in Cake Decorating should not use Royal Icing or Rolled Fondant as the base frosting.

NO fondant decorations can be used in **Units 1, 2 or 3.**

Only required tip work can be used in Units 2 and 3.

7. If your exhibit requires over 2' x 2' in exhibit area, you **must** check with the superintendent.

8. Cakes will **not** be cut for judging.

9. Real cakes are required for all four required cakes and cupcake batter in Units 1-6. At least 2 of the cakes need to be real in Units 7-10. In Unit 8, at least 2 of the 4 cakes must be real cakes.

10. Unit 11 is molds and three molds are required plus the exhibit mold for a total of 4.

11. In Unit 12, 75 percent of the judging will be on the notebook.

12. **All cakes require a bottom border.**

13. Definition of two layered cake is, two of the same size cakes placed on top of each other. This is used for units 3, 7, 8, & 9.

EDIBLE CAKE DECORATING—UNIT 1

Class 2601 **Edible Cake Decorating Unit 1** Jr.

Class 2602 **Edible Cake Decorating Unit 1** Int.

Class 2603 **Edible Cake Decorating Unit 1** Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record on the four required cakes plus the exhibit cake (**TOTAL OF 5**) (All 5 cakes must be real):

1. occasion for use
2. real cakes
3. size or shape
4. techniques used
5. edible materials used
6. cost to buy similar cake
7. any problems you had

Be sure to put the cost of your four cakes and exhibit cake on the expense page in the e-Record.

C. Include photos or drawings of the four required cakes in addition to photos of you working on your project in the record photo page.

D. One decorated single layer **real** cake (8", 9" or 10" round or square or 9" x 13" rectangle cake) using only edible materials (for example: candies, pretzels, and coconut should be used to create a design). A real cake (no cake forms) should be used for exhibit in Unit 1. No decorator tips are allowed in this unit. **NO fondant** may be used for decorations or base icing on the cake. **One fourth of the top of cake should be visible to show smooth base.** No royal icing can be used as icing or decorations on the cake. **No non-edible material can be used in Units 1-6.**

E. Bottom Base Border required.

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

SINGLE LAYERED CAKE—UNIT 2

Class 2604 **Single Layered Cake** Unit 2 Jr.

Class 2605 **Single Layered Cake** Unit 2 Int.

Class 2606 **Single Layered Cake** Unit 2 Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record on the four required cakes plus the

exhibit cake (**TOTAL of 5**) (All 5 cakes must be real cakes):

1. occasion for use
2. real cakes
3. size or shape
4. techniques used
5. tips used and where
6. cost to buy similar cake
7. any problems you had

Be sure to put the cost of your four cakes and exhibit cake in the expense page in the e-Record.

C. Include photos or drawings of the four required cakes in addition to photos of you working on your project in the record photo page.

D. One decorated single layered **real** cake (8", 9" or 10" round or square or 9" x 13" rectangle cake pan.) using a leaf, star and round tips. **One fourth of the top of cake should be visible to show smooth base.** No fondant or royal icing may be used as icing or decorations on the cake. **Only required tip work can be used in Unit 2 (no candy, etc., for decoration).** **No non-edible decorations can be used in units 1-6.** Do not use flowers made on a flower nail or materials other than frosting in decorations. No cake forms can be used.

E. Bottom Base Border required.

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

TWO LAYERED CAKE—UNIT 3

Class 2607	Two Layered Cake	Unit 3	Jr.
Class 2608	Two Layered Cake	Unit 3	Int.
Class 2609	Two Layered Cake	Unit 3	Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record on the four required cakes plus the exhibit (**TOTAL OF 5**) (All 5 cakes must be real cakes):

1. occasion for use
2. size or shape
3. real cakes
4. techniques used
5. tips used and where
6. cost to buy similar cake
7. any problems you had

Be sure to put the cost of your four cakes and exhibit cake in the expense page in the e-Record.

C. Include photos or drawings of the four required cakes in addition to photos of you working on your project in the record photo page.

D. One decorated two-layered **real** cake (8", 9" or 10" round or square) using three to five different types of tips in decorating. You must use the round, star, and leaf tips, but may also use other tips, if you choose. Spatula and brush striping and figure piping are optional. **One fourth of the top of cake should be visible to show smooth base.** Do not use flowers made on a flower nail or materials other than frosting. No fondant or royal icing may be used as icing or decorations on the cake. **Only required tip work can be used in Unit 3. No non-edible decorations can be used in units 1-6.**

E. Bottom Base Border required.

F. Side trim required on Exhibit Cake and on at least two practice cakes.

G. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

CHARACTER CAKES—UNIT 4

Class 2610	Character Cakes	Unit 4	Jr.
Class 2611	Character Cakes	Unit 4	Int.
Class 2612	Character Cakes	Unit 4	Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record on the three required character cakes plus the exhibit (**TOTAL of 4**) (All four character cakes must be real cakes):

1. occasion for use
2. shape
3. real character cakes
4. techniques used
5. tips used and where
6. cost to buy similar cake
7. any problems you had

Be sure to put the cost of your three cakes and exhibit cake in the expense page in the e-Record.

C. Include photos or drawings of the four required cakes in addition to photos of you working on your project in the record photo page.

D. One decorated character cake (an entire cake which resembles the shape of a character or object made without cutting and other than a classic square, round, oblong, heart, hexagon, oval or petal cake shape). Three-dimensional cakes are acceptable. The cake is to be primarily decorated with the star tip or other tips appropriate to the design. Fondant or royal icing can be used only for decorations. **No non-edible decorations can be used in units 1-6.**

E. **Bottom Base Border that frames the cake is required.**

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

UNIT 5 SMALL TREATS

THEMED CUPCAKES—UNIT 5

Class 2613	Themed Cupcakes	Unit 5	Jr
Class 2614	Themed Cupcakes	Unit 5	Int.
Class 2615	Themed Cupcakes	Unit 5	Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record: a minimum of three batches of cupcakes (can either be themed, stacked or character), plus the exhibit cupcakes, for a minimum of four baking and decorating experiences. One batch = 12 cupcakes.
(TOTAL OF 4):

1. occasion for use
2. size or shape
3. four batches of cupcakes
4. techniques used
5. tips used and where
6. edible materials used
7. cost to buy similar cupcakes
8. any problems you had

Be sure to put the cost of your three cupcake batches and exhibit cupcakes on the expense page in the e-Record.

C. Include photos or drawings of the four required batches in addition to photos of you working on your project in the record photo page. Write a short explanation of what you did and what you learned with each batch you decorated.

D. A minimum of 3 and a maximum of 6 regular size (2 ¾ inches) cupcakes in liners. Cupcakes should be decorated using frosting and edible materials. Fondant and royal icing can be used only for decorations. Cupcakes should be of a similar theme, meaning that there is a central idea between all the cupcakes (for example, animal theme or flower theme; Disney characters cupcakes do not have to be all the same). Place each decorated cupcake in a disposable muffin tin or a disposable container that matches the theme and is no larger than 10-inch round (example: teacups, ice cream cones, etc.). Frosting must cover the cupcake and provide a base for decorations. Spatula painting and brush striping are optional. Please label with the Exhibitor name and county. No non-edible decorations can be used.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

STACKED CUPAKES—UNIT 5

Class 2616	Stacked Cupcakes	Unit 5	Jr.
Class 2617	Stacked Cupcakes	Unit 5	Int.
Class 2618	Stacked Cupcakes	Unit 5	Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record on the three required batches of cupcakes (can either be themed, stacked or character), plus the exhibit cupcakes, for a minimum of four baking and decorating experiences. One batch = 12 cupcakes.
(TOTAL of 4):

1. occasion for use
2. size or shape
3. four batches of cupcakes
4. techniques used
5. tips used and where
6. edible materials used
7. cost to buy similar cupcakes
8. any problems you had

Be sure to put the cost of your three cupcake batches and exhibit cupcakes on the expense page in the e-Record.

C. Include photos or drawings of the four required batches of cupcakes in addition to photos of you working on your project in the record photo page. Write a short explanation of what you did and what you learned with each batch you decorated.

D. A minimum of 4 and a maximum of 8 cupcakes creating one design where cupcakes are stacked on top of each other and decorated. (Experiment with using mini cupcakes and regular sized cupcakes when stacking.) Non-visible supports can be used to hold stacked cupcakes. Cupcakes are decorated using frosting and edible materials. Frosting must cover the cupcake and provide a base for decorations. Fondant and royal icing can be used for decorations only. Cupcakes should be secured to a sturdy board (foam core, cardboard, plywood, particle board, etc.) and secured with frosting for display. Board size should be appropriate to design (use guideline for cakes – maximum of 9" x 13" or a 14" round.) Spatula painting and brush striping are optional. No non-edible decorations can be used. Cupcakes can be stacked 2 but not more than 4 high with a maximum of 8 cupcakes total for the design. A variety of sizes is allowed and encouraged.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

CHARACTER CUPCAKES—UNIT 5

Class 2619	Character Cupcakes	Unit 5	Jr.
Class 2620	Character Cupcakes	Unit 5	Int.
Class 2621	Character Cupcakes	Unit 5	Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record on the three required batches of cupcakes (can either be themed, stacked or character), plus the exhibit cupcakes for a minimum of four baking and decorating experiences. One batch = 12 cupcakes **(TOTAL 4)**:

1. occasion for use
2. size or shape
3. four batches of cupcakes
4. techniques used
5. tips used and where
6. edible materials used
7. cost to buy similar cupcakes
8. any problems you had

Be sure to put the cost of your three cupcake batches and exhibit cupcakes on the expense page in the e-Record.

C. Include photos or drawings of the four required batches of cupcakes in addition to photos of you working on your project in the record photo page. Write a short explanation of what you did and what you learned with each batch you decorated.

D. Character Cupcakes are multiple, individually decorated cupcakes that come together to create the character. **That is, if a cupcake is removed, the design or character will be ruined. Another way to describe character cupcakes is any design that cannot be displayed in a cupcake pan as individual cupcakes. The design should be one dimension – no stacking.** The cupcakes are decorated using frosting and edible materials. Spatula painting and brush striping are optional. Frosting must cover the cupcake and provide a base for decorations. Fondant and royal icing can be used only for decorations. The character must be displayed on one cake board (foam core, strong cardboard, plywood or particle board, etc.) with a maximum size of 9" x 13" or 14" round. No non-edible decorations can be used.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

DECORATED THEMED COOKIES—UNIT 5

Class 2622	Decorated Themed Cookies	Unit 5	Jr.
Class 2623	Decorated Themed Cookies	Unit 5	Int.
Class 2624	Decorated Themed Cookies	Unit 5	Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record on the required three batches of cookies plus your exhibit cookies. **(TOTAL OF 4)** One batch = 12 cookies.

1. occasion for use
2. size or shape
3. three batches of cookies
4. techniques used
5. tips used and where
6. edible materials used
7. cost to buy similar cookies
8. any problems you had

Be sure to put the cost of your three cookie batches and exhibit cookies on the expense page in the e-Record.

C. Include photos or drawings of the four required batches of cookies in addition to photos of you working on your project in the record photo page. Write a short explanation of what you did and what you learned with each batch you decorated.

D. A minimum of 3 and maximum of 6 regular size (approximately 3 inch) cookies displayed on a disposable base no larger than 12 inches, labeled with the Exhibitors name and county. Cookies should be of a similar design or theme. Cookies are decorated using frosting and edible materials. Spatula painting and brush painting are optional. Base Frosting – poured icing, buttercream, royal icing, run-in sugar – must cover the cookie and provide a base for decorations. Fondant may be used only for decorations.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

DECORATED STACKED COOKIES—UNIT 5

Class 2625	Decorated Stacked Cookies	Unit 5	Jr.
Class 2626	Decorated Stacked Cookies	Unit 5	Int.
Class 2627	Decorated Stacked Cookies	Unit 5	Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record on the required three batches of cookies plus your exhibit cookies. **(TOTAL OF 4)** One batch = 12 cookies.

1. occasion for use
2. size or shape
3. three batches of cookies
4. techniques used
5. tips used and where
6. edible materials used
7. cost to buy similar cookies
8. any problems you had

Be sure to put the cost of your three cookie batches and exhibit cookies on the expense page in the e-Record.

C. Include photos or drawings of the four required batches of cookies in addition to photos of you working on your project in the record photo page. Write a short explanation of what you did and what you learned with each batch you decorated.

D. Cookies stacked on top of each other and decorated to create one design or theme that is a minimum of 6 inches and maximum of 12 inches in height. Cookies may vary in size according to the type of stacking being done. Cookies should be secured to a sturdy covered board for display not to exceed 12 X 12 inches. Cookies are decorated using icing and edible materials. Fondant may be used only for decorations.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

DECORATED COOKIE CONSTRUCTION—UNIT 5

Class 2628 **Decorated Cookie Construction** Unit 5 Jr.

Class 2629 **Decorated Cookie Construction** Unit 5 Int.

Class 2630 **Decorated Cookie Construction** Unit 5 Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record on the required three cookie structures plus your exhibit cookie structure. **(TOTAL OF 3)**

1. occasion for use
2. size or shape
3. three batches of cookies
4. techniques used
5. tips used and where
6. edible materials used
7. cost to buy similar cookies
8. any problems you had

Be sure to put the cost of your three cookie structures on the expense page in the e-Record.

C. Include photos or drawings of the three required batches of cookies in addition to photos of you working on your project in the record photo page. Write a short explanation of what you did and what you learned with each batch you decorated.

D. A cookie structure that is no more than 11 inches square and a maximum height of 20 inches. The structure should be placed on a sturdy covered board not to exceed 14 x 14 inches and labeled with the Exhibitors name and county. The structure may be placed in a "glass" case for display. Structure is decorated using frosting and edible materials. Fondant may be used for decorations.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

CUT-UP CAKES—UNIT 6

Class 2631 **Cut-Up Cakes** Unit 6 Jr.

Class 2632 **Cut-Up Cakes** Unit 6 Int.

Class 2633 **Cut-Up Cakes** Unit 6 Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record on the three-required cut-up cakes plus the exhibit cake **(TOTAL OF 4)** (All 4 cut-up cakes must be real cakes):

1. occasion for use
2. size or shape
3. real cut-up cakes
4. **pattern(s) used**
5. techniques used
6. tips used and where
7. edible materials used
8. cost to buy similar cake
9. any problems you had

Be sure to put the cost of your three cakes and exhibit cake in the expense page in the e-Record.

C. Include photos or drawings of the four required cakes in addition to photos of you working on your project in the record photo page. **Pattern(s) or diagrams for all required cakes must be included in the e-Record. Be sure to include photos or drawings of the steps in your process.**

D. One decorated cut-up cake using **three different types** of decorator tips (not different sizes of the same tips). (Edible materials may also be used; non-edible materials cannot be used to decorate.) Cake board (foam core, strong cardboard, plywood or particle board, etc.) must be cut parallel to the shape of the cake. 14" x 14" base for a 12" x 12" x 12" cake size. Non-edible

internal supports are allowed but must not show. No non-edible decorations can be used.

E. Bottom base border required.

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

FLAT SURFACE AND NAIL FLOWERS—UNIT 7

Class 2634 **Flat Surface and Nail Flowers** Unit 7 Int.

Class 2635 **Flat Surface and Nail Flowers** Unit 7 Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record of the three required cakes plus the exhibit cake **(TOTAL OF 4)** (At least 2 of the 4 must be real cakes):

1. occasion for use
2. size or shape
3. cake or cake form (at least 2 real cakes)
4. techniques used
5. tips used and where
6. cost to buy similar cake
7. any problems you had

Be sure to put the cost of your three cakes and exhibit cake on the expense page in the e-Record.

C. Include photos or drawings of the four required cakes in addition to photos of you working on your project in the record photo page.

D. One two-layered 8", 9", or 10" cake or cake form using a minimum of: one flat surface flower, one flower made on a flat flower nail, one border and one side trim learned in this unit. Texturing is optional. No Fondant.

E. Side trim is required.

F. Bottom Base Border is required.

G. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

FONDANT—UNIT 8

Class 2636 **Fondant** Unit 8 Int.

Class 2637 **Fondant** Unit 8 Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook

B. Include the following information in the Cake Decorating e-Record of the three cakes plus the exhibit

(TOTAL OF 4) (At least 2 of the 4 must be real cakes and all covered in fondant.) **Exhibit cake must be covered with fondant:**

1. occasion for use
2. size or shape
3. cake or cake form (at least 2 real cakes and 2 covered in fondant). Exhibit cake must be covered with fondant.
4. techniques used
5. tips used and where
6. cost to buy similar cake
7. any problems you had

Be sure to put the cost of your three required cakes and exhibit cake on the expense page in the e-Record.

C. Include photos or drawings of the four required cakes in addition to photos of you working on your project in the record photo page.

D. One decorated two layered cake or cake form 8", 9" or 10" round or square covered in fondant and decorated using fondant and gum paste decorations.

E. Bottom Base Border required.

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

LILY NAIL FLOWERS—UNIT 9

Class 2638 **Lily Nail Flowers** Unit 9 Int.

Class 2639 **Lily Nail Flowers** Unit 9 Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record of the three required cakes, plus the exhibit cake **(TOTAL of 4)**. (At least 2 of the 4 cakes must be real and the exhibit cake must have a lily nail flower on them):

1. occasion for use
2. size or shape
3. cake or cake form (at least 2 real cakes)
4. techniques used
5. tips used and where
6. cost to buy similar cake
7. any problems you had

C. Include photos or drawings of the four required cakes in addition to photos of you working on your project in the record photo page.

D. One decorated two-layered 8", 9", 10" cake or cake form using an example of string work and a flower made on a lily flower nail and a side trim. Texturing is optional.

E. **String work (cornelli, sota or applique lace, etc.) required. Writing is not string work.**

F. **Bottom base border is required.**

G. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

TIERED CAKES—UNIT 10 (SENIORS ONLY)

Class 2640 **Tiered Cakes** Unit 10 Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record of the three required cakes plus the exhibit cake (**TOTAL of 4**). (At least 2 of the 4 must be real cakes.) Forms are preferred for the Exhibited Cake:

1. occasion for use
2. size or shape
3. cake or cake form (at least 2 real cakes)
4. techniques used
5. tips used and where
6. cost to buy similar cake
7. any problems you had

C. Include photos or drawings of the four required cakes in addition to photos of you working on your project in the record photo page. Write a short explanation of what you did and what you learned with each cake you decorated.

D. One decorated cake or cake form of three or more tiers of graduated sizes, using supports. Separator plates and pillars may be used but are not required.

E. **Bottom base border is required.**

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

MOLDS—UNIT 11 (SENIORS ONLY)

Class 2641 **Molds** Unit 11 Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in sturdy binder/notebook.

B. Include the following information in the Cake Decorating e-Record of the three required molded items plus the exhibit item (**TOTAL of 4**). Mold and shape at least three different edible materials (fondant, gum paste, molding chocolate, candy melts, sugar, cereal bases covered in fondant, etc.). See manual.

1. occasion for use
2. molding materials (at least three different molding or shaping materials)

3. molds used (mold at least three different edible molds)
4. techniques used
5. tips used and where
6. edible materials other than molding
7. cost of materials
8. any problems you had

C. Include photos or drawings of the three molded items in addition to photos of you working on your project in the record photo page. Write a short explanation of what you did and what you learned with each molded or shaped item you decorated.

D. One molded or shaped object may be on a decorated cake, a cake form or an independent display case (no larger than 10 inches) to protect the item from harm.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

CREATE YOUR OWN—UNIT 12 (SENIORS ONLY)

Class 2642 **Create Your Own** Unit 12 Sr.

All exhibits will consist of the following:

A. Completed Cake Decorating e-Record presented in a sturdy binder/notebook.

B. **A detailed notebook describing your project including your goals, plans, accomplishments and your evaluation of results. You may use pictures or any records you have kept that provides evidence of your accomplishments. This notebook is your main project exhibit and will count for 75 percent of the scoring. If an item was made as part of your project, a sample may be displayed as further evidence of the quality of your project. Notebook will be displayed. The display notebook and optional item must not require over a 2'x 2' area or consist of more than three items.**

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

CLOTHING CONSTRUCTION

Kim Eastwood.....Superintendent

Note: Please read 4-H Project Exhibit Rules on page 2.

1. With the sewing manuals, a member may stay in the manuals until they have mastered the techniques. UNIT 1—STEAM Clothing 1 (Beginning) is for **beginner sewers**, those with little to no experience. UNIT 2—STEAM Clothing 2 is for sewers that are familiar with the basic techniques and ready **to learn more advanced skills**. UNIT 3—STEAM Clothing 3 is for the **advanced sewer** who wants to learn more about **tailoring and advanced skills**. STEAM Clothing 3 is for intermediates and seniors.

2. Requirements: All exhibit garments must be labeled with name, age, county and unit of the 4-H member. Labels must be attached at the inside of the neckline or at the waistband of skirts and pants. Information must be written or typed on a label and securely attached to the inside of garment. This will assist in case of property loss.

3. The garments may be worn before exhibiting but should be in good and clean condition.

4. Sergers may be used as a seam finish only; not as a seam for STEAM Clothing 1.

5. Due to the difficulty of skills involved, buttonholes and button loops are to be used in STEAM Clothing 2 and above.

6. Clothing is defined as wearable, dressy or casual wear, active/sportswear or sleepwear. An exhibit shall consist of no more than three coordinated pieces. No accessory items, i.e. shoes, scarves, hats, etc.

7. **Advanced Unit STEAM Clothing 3—complete one textile experiment using your garment fashion fabric each year.** Include this information in your clothing construction e-Record: completed experiment sheets and sample(s) mounted on 8 1/2" x 11" heavy paper. **No photos of experiments are allowed. Fabric must be attached.** Experiments may be repeated in a subsequent year if different fabric is used.

8. **Pattern instruction sheet is required** and must be attached securely to the e-Record. Write name and county on pattern instruction sheet.

9. Do not use binders that are clear plastic with sliders.

10. Members are encouraged to select a unit that challenges their skills. All units will be judged on required skills included in the manual.

11. All garments construction in STEAM Clothing 1, 2 and 3 are to be made for the member except for Unit 4 – Sewing for Others.

Note: All Colorado State Fair silk items or garments will be displayed only with a "permission to display" form that acknowledges possible fading caused by state fair display lighting. Permission-to-display forms are available at county Extension offices.

For those members who are exhibiting more than one item, they may copy their e-Record. Each exhibit must have an e-Record. Be sure to highlight what you are exhibiting in your e-Record.

STEAM CLOTHING 1 FUNDAMENTALS—UNIT 1

Class 2801 STEAM Clothing 1 Pillowcase Jr.

Class 2802 STEAM Clothing 1 Pillowcase Int.

Class 2803 STEAM Clothing 1 Pillowcase Sr.

All exhibits will consist of the following:

A. Completed Clothing Construction e-Record with pattern instruction sheet presented in a sturdy binder/notebook. Include in your story why you chose a clothing project, why you selected this garment or outfit and describe any changes made in the garment or outfit.

B. Provide the brand, number and cost of the pattern used in the Clothing Construction e-Record on the Expense page.

C. Include the following information on the Clothing Construction page.

1. A list of all the garments or articles made
2. Percent of fiber content of each garment or article made
3. Care of garment exhibited

D. Include the cost of each garment in the Expense record of the Clothing Construction e-Record.

E. Pillowcase illustrating skills learned such as: simple seams, seam finishes, matching, suitable fabric/thread, cuff and even lip, etc.

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

STEAM CLOTHING 1 FUNDAMENTALS—UNIT 1

Class 2804 STEAM Clothing 1 Pillow Jr.

Class 2805 STEAM Clothing 1 Pillow Int.

Class 2806 STEAM Clothing 1 Pillow Sr.

All exhibits will consist of the following:

A. Completed Clothing Construction e-Record with pattern instruction sheet presented in a sturdy binder/notebook. Include in your story why you chose a clothing project, why you selected this garment or outfit and describe any changes made in the garment or outfit.

B. Provide the brand, number and cost of the pattern if used in the Clothing Construction e-Record on the Expense page.

C. Include the following information on the Clothing Construction page.

1. A list of all the garments or articles made
2. Percent of fiber content of each garment or article made
3. Care of garment exhibited

D. Include the cost of each garment in the Expense record of the Clothing Construction e-Record.

E. Simple Pillow – No larger than 18" x 18" illustrating skills learned such as: simple seams, seam finishes, suitable fabric/thread, matching, trimmed corners, finished closure (lap or secured), etc.

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

STEAM CLOTHING 1 FUNDAMENTALS—UNIT 1

All exhibits will consist of the following:

A. Completed Clothing Construction e-Record with pattern instruction sheet presented in a sturdy binder/notebook. Include in your story why you chose a clothing project, why you selected this garment or outfit and describe any changes made in the garment or outfit.

B. Provide the brand, number and cost of the pattern used in the Clothing Construction e-Record on the Expense page.

C. Include the following information on the Clothing Construction page.

1. A list of all the garments or articles made
2. Percent of fiber content of each garment or article made
3. Care of garment exhibited

D. Include the cost of each garment in the Expense record of the Clothing Construction e-Record.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

F. An exhibit illustrating the skills learned such as: simple seams, seam finishes, topstitching, darts, facing/interfacing, hems, fasteners, etc. Exhibits must use a firmly woven, medium-weight cotton or at least 50-percent cotton-blend fabric. Exhibit should be a simple pattern with no more than five pattern pieces without set-in sleeves, zippers, collars, or buttonholes.

Members can exhibit in one or more of the following classes:

Simple Top

Class 2807 STEAM Clothing 1 Simple Top Jr.

Class 2808 STEAM Clothing 1 Simple Top Int.

Class 2809 STEAM Clothing 1 Simple Top Sr.

Simple Bottom (pants, pajama bottoms, shorts, skirts,)

Class 2810 STEAM Clothing 1 Simple Bottom Jr.

Class 2811 STEAM Clothing 1 Simple Bottom Int.

Class 2812 STEAM Clothing 1 Simple Bottom Sr.

Simple Dress

Class 2813 STEAM Clothing 1 Simple Dress Jr.

Class 2814 STEAM Clothing 1 Simple Dress Int.

Class 2815 STEAM Clothing 1 Simple Dress Sr.

STEAM CLOTHING 2 SIMPLY SEWING—UNIT 2

All exhibits will consist of the following:

A. Completed Clothing Construction e-Record with pattern instruction sheet presented in a sturdy binder/notebook. Include in your story why you chose a clothing project, why you selected this garment or outfit and describe any changes made in the garment or outfit.

B. Provide the brand, number and cost of the pattern used in the Clothing Construction e-Record on the Expense page.

C. Include the following information on the Clothing Construction page.

1. A list of all the garments or articles made
2. Percent of fiber content of each garment or article made
3. Care of garment exhibited

D. Include the cost of each garment in the Expense record of the Clothing Construction e-Record.

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

E. An exhibit illustrating the skills learned such as: set-in sleeves, zippers, collars, cuffs, buttonholes, etc. Exhibits may use any woven or knit fabric appropriate to the garment's design and should demonstrate sewing skills beyond STEAM Clothing 1. The exhibit MUST INCLUDE one or more of the following techniques: set-in sleeves, zippers, collars, cuffs or buttonholes.

Members can exhibit in one or more of the following classes:

Top (vest acceptable)

Class 2816 STEAM Clothing 2 Top Jr.

Class 2817 STEAM Clothing 2 Top Int.

Class 2818 STEAM Clothing 2 Top Sr.

Bottoms (pants or shorts)

Class 2819 STEAM Clothing 2 Bottom Jr.

Class 2820 STEAM Clothing 2 Bottom Int.

Class 2821 STEAM Clothing 2 Bottom Sr.

Skirt

Class 2822 STEAM Clothing 2 Skirt Jr.

Class 2823 STEAM Clothing 2 Skirt Int.

Class 2824 STEAM Clothing 2 Skirt Sr.

Dress (not formal wear)

Class 2825 STEAM Clothing 2 Dress Jr.

Class 2826 STEAM Clothing 2 Dress Int.

Class 2827 STEAM Clothing 2 Dress Sr.

Romper

Class 2828 STEAM Clothing 2 Romper or Jumpsuit Jr.

Class 2829 STEAM Clothing 2 Romper or Jumpsuit Int.

Class 2830 STEAM Clothing 2 Romper or Jumpsuit Sr.

Two-Piece Outfit

Class 2831 STEAM Clothing 2 Two-Piece Outfit Jr.

Class 2832 STEAM Clothing 2 Two-Piece Outfit Int.

Class 2833 STEAM Clothing 2 Two-Piece Outfit Sr.

ADVANCED CLOTHING CONSTRUCTION

Garments should demonstrate sewing skills beyond STEAM Clothing 2; for example, rolled hems, hand-picked zippers, princess seams, flat felled or mock flat felled seam finishes, invisible zippers, tailoring techniques (French or Hong Kong seam finishes, non-woven interfacing, bound buttonholes, shoulder pads, sleeve heads, lining and or underling, welt pockets, swing tacks, etc.).

STEAM CLOTHING 3 A STITCH FURTHER—UNIT 3

Class 2834 STEAM Clothing 3 Cotton or Cotton Blend Int.

Class 2835 STEAM Clothing 3 Cotton or Cotton Blend Sr.

Class 2836 STEAM Clothing 3 Synthetics and Rayon Int.

Class 2837 STEAM Clothing 3 Synthetics and Rayon Sr.

Class 2838 STEAM Clothing 3 Wool and Wool Blend Int.

Class 2839 STEAM Clothing 3 Wool and Wool Blend Sr.

Class 2840 STEAM Clothing 3 Silk and Silk-Like Int.

Class 2841 STEAM Clothing 3 Silk and Silk-Like Sr.

Class 2842 STEAM Clothing 3 Specialty Fabrics Int.

Class 2843 STEAM Clothing 3 Specialty Fabrics Sr.

All exhibits will consist of the following:

A. Completed Clothing Construction e-Record with **pattern instruction sheet** presented in a sturdy binder/notebook. Include in your story why you chose a clothing project, why you selected this garment or outfit and describe any changes made in the garment or outfit.

B. Provide the brand, number and cost of the pattern used in the Clothing Construction e-Record on the Expense page.

C. Include the following information on the Clothing Construction page:

1. List of all garments made
2. Percent of fiber content of each garment
3. Care of garment exhibited
4. **Textile experiments—complete one experiment using garment fashion fabric (fashion fabric must be attached – no photos). Include experiment sheet and mount the sample on 8 ½" x 11" heavy paper in the e-record.**

D. Include the cost of each garment in the Expense record of the Clothing Construction e-Record.

E. A garment or outfit of fabric containing a majority of 50-100 percent cotton, synthetic, wool or wool-blend, silk or silk-like fibers. Specialty fabrics are fabrics using sequins, beads, fleece, leather, linen, etc.

F. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

SEWING FOR OTHERS—UNIT 4

Class 2844 Sewing for Others Jr.

Class 2845 Sewing for Others Int.

Class 2846 Sewing for Others Sr.

All exhibits will consist of the following:

A. Completed Clothing Construction e-Record with pattern instruction sheet presented in a sturdy binder/notebook. Include in the project story:

1. Why you chose to exhibit this item.
2. Who you made the garment(s) for.
3. Why, what new skills you learned this year.
4. What you liked best about your project.
5. What would you like to change?
6. What you learned about sewing for others? (Did you have any special pattern alterations? If so, describe.)
7. Will you continue to sew for others, why or why not?
8. Did you charge for making the garment/outfit (if so, what did you include in the billing; i.e., fabric notions, interfacing, utilities, time, mileage, etc.)?
9. What other work have you done in this project?

B. Include the following information on the Clothing Construction page.

1. A list of all the garments or articles made
2. Percent of fiber content of each garment or article made
3. Care of garment exhibited

C. One garment or outfit which illustrates what was learned.

D. Project will be evaluated on the quality of construction techniques (75 percent) and a completed e-Record (25 percent).

ARTISTIC CLOTHING

Julia Hurdelbrink..... Superintendent

Note: Please read 4-H Project Exhibit Rules on page 2.

Project Exhibit Rules:

1. Requirement: All exhibit garments must be labeled with name, age, county and unit of the 4-H member. Labels must be attached at the inside of the neckline or at the waistband of skirts and pants. Information must be written on a label and securely attached to garment or article. This will assist in case of property loss.

2. Garments may be worn before exhibiting but should be in good, clean condition.

3. An exhibit shall consist of no more than three coordinated pieces (but no accessory items such as shoes, jewelry, hats, etc.) **All clothing pieces must be securely attached together on hangers.**

4. e-Records – Do not use covers that are clear plastic with sliders.

5. Members are encouraged to select a unit that challenges their skills. All units will be judged on required skills included in the manual.

6. Note: All Colorado State Fair silk items or garments will be displayed only with a permission-to-display form that acknowledges possible fading caused by state fair display lighting. Permission-to-display forms are available at Extension offices.

UPCYCLE YOUR STYLE—APPLIED

Class 2901 Applied Jr.

Class 2902 Applied Int.

Class 2903 Applied Sr.

All exhibits will consist of the following:

A. Completed Artistic Clothing e-Record presented in a sturdy binder/notebook. Include in the project story where you got the idea for your project, what you liked best about the project, what you would change, how to clean your project, how the item will be used and if you recycled or reused any fabric or other materials for your project. If a pattern was used, please include the pattern instruction sheet.

B. Include the following information on the Artistic Clothing page.

1. A list of all garments made
2. A description of the steps in order of application (including product name and numbers, etc.) for your exhibit item

C. Up to three coordinated wearable garments (but no accessory items such as shoes, jewelry, etc.). Decoration is attached by gluing, fusing or painting. Examples: jewels, puff paints, appliques, tie-dye.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

UPCYCLE YOUR STYLE—STITCHED

Class 2904 Stitched Jr.

Class 2905 Stitched Int.

Class 2906 Stitched Sr.

All exhibits will consist of the following:

A. Completed Artistic Clothing e-Record presented in a sturdy binder/notebook. Include in the project story where you got the idea for your project, what you liked best about the project, what you would change, how to clean your project, how the item will be used and if you recycled or reused any fabric or other materials for your project. If a pattern was used, please include the pattern instruction sheet.

B. Include the following information on the Artistic Clothing page.

1. A list of all garments made
2. A description of the steps in order of application (including product name and numbers, etc.) for your exhibit item

C. Up to three coordinated wearable garments (but no accessory items such as shoes or jewelry). Decoration may be hand-or machine-stitched. Examples: machine or hand sewing, such as adding a collar or skirt, appliqué -stitch, embroidery, quilting, beading, knitting or crochet (by self or others).

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

UPCYCLE YOUR STYLE—COMBINATION

Class 2907 Combination Jr.

Class 2908 Combination Int.

Class 2909 Combination Sr.

All exhibits will consist of the following:

A. Completed Artistic Clothing e-Record presented in a sturdy binder/notebook. Include in the project story where you got the idea for your project, what you liked best about the project, what you would change, how to clean your project, how the item will be used and if you recycled or reused any fabric or other materials for your project. If a pattern was used, please include the pattern instruction sheet.

B. Include the following information on the Artistic Clothing page.

1. A list of all garments made
2. A description of the steps in order of application (including product name and numbers, etc.) for your exhibit item

C. Up to three coordinated wearable garments (but no accessory items such as shoes or jewelry). Decoration includes a significant amount (minimum of 30 percent each) from the two categories on one garment.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

RECYCLED CLOTHING

Class 2910 Recycled Clothing	Jr.
Class 2911 Recycled Clothing	Int.
Class 2912 Recycled Clothing	Sr.

All exhibits will consist of the following:

A. Completed Artistic Clothing e-Record with **pattern instruction sheet** presented in a sturdy binder/notebook. Include in your story what you learned about recycling, the fiber content and/or care label of original item, any special problems and how you overcame them.

B. Include the following information on the 4-H Artistic Clothing Pages of the e-Record.

1. A list of all the garments or articles made
2. Technique sheet where you describe each step, in order of application
3. Written description of your project including goals, plans, accomplishments, evaluation

C. Include the cost of each garment in the Expense record of the Artistic Clothing e-Record.

D. One garment or outfit which illustrates what was learned. Garment must be of fabric and be sewn.

E. Project evaluated on quality of construction techniques, creativity of adaptation (75 percent) and completed e-Record (25 percent).

CREATIVE SEWING

Class 2913 Creative Sewing Costumes	Jr.
Class 2914 Creative Sewing Costumes	Int.
Class 2915 Creative Sewing Costumes	Sr.
Class 2916 Creative Sewing All Other Exhibits	Jr.
Class 2917 Creative Sewing All Other Exhibits	Int.

Class 2918 Creative Sewing All Other Exhibits Sr.

All exhibits will consist of the following:

A. Completed Artistic Clothing e-Record with a description of what was done presented in a sturdy binder/notebook. Include in the project story where you got the idea for your project, what you liked best about the project, what you would like to change, and how the item will be used. If a pattern was used, please include the pattern instruction sheet.

B. Include the following information on the Artistic Clothing page.

1. A list of all garments made
2. A description of the steps in order of application (including product name and numbers, etc.) for your exhibit item

C. One to three coordinated items illustrating what was learned (costumes, puppets, accessories, toys, stuffed animals, book bags, sleeping bags, etc.). **Note:** Small items such as accessories and small doll clothes are to be displayed on a display board.

D. Project will be evaluated on creativity used in making your exhibit (45 percent), the quality of construction (30 percent) and completed e-Record (25 percent).

BUYMANSHIP

Class 2919 Buymanship	Int.
Class 2920 Buymanship	Sr.

All exhibits will consist of the following:

A. Completed Buymanship Clothing e-Record, completed manual presented in a sturdy binder/notebook. Include in the project story where you got the idea for your project, what you liked best about the project, and what you would like to change.

B. Two (2) activities are to be included in your e-record. Choose from the following:

- Self-assessment (Getting to Know Myself)
- Wardrobe Inventory
- Clothing Plan of Action
- Selecting Becoming Colors

C. One completed outfit, which may include belts and scarves. No other accessories allowed. The exhibit needs to be neat, clean and pressed: ready for display.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

CREATE YOUR OWN (Exploration of Textiles and Clothing)

Class 2921 Create Your Own	Int.
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All exhibits will consist of the following:

A. Completed Artistic Clothing e-Record that includes a special study with a written report presented in a sturdy binder/notebook. Include in the project story where you got the idea for your project, what you liked best about the project, what you would like to change, and how the item will be used.

B. Include the following information on the Artistic Clothing page.

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

C. Optional: Constructed article or display related to special study. The standardized display board size is 4'x 3'.

D. Project will be evaluated on the quality of content from completed e-Record and written description (50 percent), and quality of construction for the item or quality of display board (50 percent).

FOODS AND NUTRITION

McKayla Stephen.....Superintendent
Joy Akey.....Assistant Superintendent

Note: Please read 4-H Project Exhibit Rules on page 2.

Project Exhibit Rules:

1. With these new food manuals, a member may stay in the manuals for up to three years.

It is recommended that members should start with Cooking 101 and then go on to Cooking 201 to learn basic food preparation skills before taking the more advanced units.

2. **Include a copy of the recipe used and attach it securely to the e-Record. No commercial mixes are to be used for the base of the product. Example: boxed cake mixes for shortened cake or quick breads, cookie dough -boxed or frozen, etc. If the commercial mix is an added ingredient into the product it is ok.**

3. Bring food items on sturdy paper plates and/or covered heavy cardboard in a zipper-locked bag for display of food exhibits when possible. Plates and pans will not be returned. Food items should be covered securely.

4. Only completed e-Records and canned goods will be returned.

5. If a recipe from the manual is used, it may need to be adjusted for high altitude.

6. Food items that show signs of mold growth or need refrigeration would not be safe to eat at time of judging and will not be accepted.

7. **Members may exhibit in one or all classes from the unit that they are enrolled in. Each exhibit will need an e-Record.**

8. Bacon is not acceptable in baked goods because the heat during the cooking process might not penetrate the meat thoroughly enough. Large pieces or chunks of cheese or a large proportion on or in recipes is not acceptable either.

9. **Members who are exhibiting more than one item in a unit may copy their e-Record. Each exhibit must have an e-Record. Be sure to highlight what you are exhibiting in your e-Record.**

1. Foods prepared
2. Number of times
3. Special concerns

C. **Include documentation of activities completed from the manual in the record book as specified for each unit.**

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

COOKING 101—UNIT 1

Include documentation of two completed learning activities from the manual in the record book.

Members can exhibit in one or more of the following classes:

Four no-bake cookies of one recipe. Made using stovetop or microwave.

Class 3001 No Bake Cookies Jr.

Class 3002 No Bake Cookies Int.

Class 3003 No Bake Cookies Sr.

Four baked bar cookies of one recipe.

Class 3004 Baked Bar Cookies Jr.

Class 3005 Baked Bar Cookies Int.

Class 3006 Baked Bar Cookies Sr.

Four baked, drop, or molded cookies of one recipe. (Molded cookies are made from a stiffer dough that is molded into balls or cookie shapes by hand before baking. Snickerdoodles are an example of molded cookies).

Class 3007 Cookies Jr.

Class 3008 Cookies Int.

Class 3009 Cookies Sr.

COOKING 201—UNIT 2

Include documentation of one completed learning activity on food safety and one on cooking basics. These can be a demonstration, written reports or displays.

Members can exhibit in one or more of the following classes:

One loaf quick bread any size (not yeast bread).

Class 3010 Quick Breads Jr.

Class 3011 Quick Breads Int.

Class 3012 Quick Breads Sr.

FOR COOKING 101 THROUGH COOKING 401

All exhibits will consist of the following:

A. Completed e-Record with exhibit item recipe presented in a sturdy binder/notebook.

B. Include the following information on the Foods and Nutrition page:

Four scones of one recipe.

Class 3013 Scones Jr.

Class 3014 Scones Int.

Class 3015 Scones Sr.

Four muffins of one recipe.

Class 3016 Muffins Jr.

Class 3017 Muffins Int.

Class 3018 Muffins Sr.

COOKING 301—UNIT 3

All exhibits will consist of the following:

Include documentation of one completed food science experiment from the manual in the e-Record.

Shorten Cakes are cakes that use fat for flavor and texture. Most shortened cake recipes begin by beating the fat with sugar to create air bubbles.

Members can exhibit in one or more of the following classes:

One shortened cake without frosting.

Class 3019 Shortened Cakes Jr.

Class 3020 Shortened Cakes Int.

Class 3021 Shortened Cakes Sr.

Four kneaded yeast rolls of one variety and shape or four cinnamon rolls.

Class 3022 Yeast Rolls Jr.

Class 3023 Yeast Rolls Int.

Class 3024 Yeast Rolls Sr.

One recipe creative yeast bread, i.e., French bread, braided bread, other specialty bread.

Class 3025 Creative Yeast Bread Jr.

Class 3026 Creative Yeast Bread Int.

Class 3027 Creative Yeast Bread Sr.

Creative exhibit (notebook) illustrating party planned by member, including theme, timeline and menu that includes one or more home-prepared foods.

Class 3028 Party Planning Jr.

Class 3029 Party Planning Int.

Class 3030 Party Planning Sr.

COOKING 401—UNIT 4

Include documentation of one completed food science experiment from the manual in the e-Record.

Members can exhibit in one or more of the following classes:

Four flatbreads of one variety and shape

Class 3031 Flatbread Jr.

Class 3032 Flatbread Int.

Class 3033 Flatbread Sr.

One 8" x 9" double-crust fruit pie made with homemade fruit filling in a disposable pie tin. No canned fruit fillings.

Class 3034 Double Crust Pie Jr.

Class 3035 Double Crust Pie Int.

Class 3036 Double Crust Pie Sr.

Creative exhibit (notebook) illustrating celebration meals planned by member, including budget, timeline, and menu that includes two or more homemade prepared foods.

Class 3037 Celebration Meals Jr.

Class 3038 Celebration Meals Int.

Class 3039 Celebrations Meals Sr.

OUTDOOR COOKING AND LIVING—UNIT 5

Class 3040 Outdoor Cooking and Living Jr.

Class 3041 Outdoor Cooking and Living Int.

Class 3042 Outdoor Cooking and Living Sr.

All exhibits will consist of the following:

A. Completed e-Record presented in a sturdy binder/notebook. Include in the project story what new skills you have learned.

B. Include the following information on the Foods and Nutrition page:

1. Foods prepared
2. Location
3. Number of times
4. Special concerns

C. One of the following:

- A box lunch of food-safe products or a representative of the product (pictures of food)

- One cup of instant drink mix, properly packaged
- A piece of equipment made by the exhibitor (no larger than 3' x 3' x 3'). If exhibit is larger than these dimensions, a notebook with how and what was made can be used as the exhibit.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

CULTURAL AND ETHNIC FOODS—UNIT 6

Class 3043 Cultural Foods Int.

Class 3044 Cultural Foods Sr.

Exhibit will consist of the following:

A. Completed e-Record and manual that includes: Activity 1 page 11; Activity 2 page 12; Record pages 13-14; Meal Report pages 15-16 with emphasis in your story about your accomplishments presented in a sturdy binder/notebook.

B. Include the following information on the Foods and Nutrition page:

1. Foods prepared
2. Number of times
3. Special concerns

C. A food product with recipe representative of the cultural or ethnic group within the United States that you selected.

D. Exhibit will be evaluated on the quality of content in the e-Record and manual activities (50 percent) and the quality of the food product (50 percent).

Note: The food product *must be safe* to hold at room temperature during judging and display.

meal plus page 4 in the manual presented in the binder/notebook with the other materials.

B. Include the following information on the Foods and Nutrition page:

1. Foods prepared
2. Number of times
3. Special Concerns

C. A food product with recipe that is representative of the country.

D. Exhibit will be evaluated on the quality of content in the e-Record and research of selected country (50 percent) and the quality of the food product (50 percent).

Note: The food product *must be safe* to hold at room temperature during judging and display.

PASSPORT TO FOREIGN COOKERY—UNIT 7

Class 3045 Passport to Foreign Cookery Int.

Class 3046 Passport to Foreign Cookery Sr.

All exhibits will consist of the following:

A. Completed e-Record and a notebook with research on selected country containing three parts:

1. A maximum of 10 pages of research and pictures on customs relating to food habits and food sources such as crops, fishing, etc. Discussion might include food shopping habits, percentage of income spent for food, how the area of the country affects diets, etc.
2. A maximum of three pages of other information about the country, i.e., climate, geography, political structure, religion, dress, etc.
3. A maximum of five pages of menus and recipes indicating nutritional balance of a traditional

FOOD PRESERVATION

Note: Please read 4-H Project Exhibit Rules on page 2.

Special Exhibit Rules for Food Preservation:

1. All foods must have been preserved since the last state fair by the 4-H member.
2. All canned products must include the following information on the label:
 - a. Name of product
 - b. Method of preparation (type of syrup, type pack, any additional ingredients added) as applies to product canned
 - c. Method of processing (i.e. pressure canner, water bath) and pounds of pressure used if food was pressure canned
 - d. Elevation at which processing was done
 - e. Exact processing time
 - f. Date processed

Examples:

PEACHES	GREEN BEANS
ascorbic acid dip	hot pack, ½ tsp salt
hot pack-thin syrup	pressure canned at
boiling water bath canned	12 ½ pounds
35 minutes at	25 minutes at
5,000 feet	5,000 feet
September 2020	July 2021

3. All dried foods must include the following information on the label:

- a. Name of product
- b. Pretreatment used, if any
- c. Name of additional ingredients added, if any
- d. Method of drying (oven, dehydrator, solar)
- e. Total drying time
- f. Date dried

Examples:

APRICOTS
ascorbic-acid-dipped
dehydrator-dried, 8 hours
July 2021

4. Standard canning jars must be used for all canned exhibits. (**The brand name, Ball or Kerr**, imprinted on the side of the jar identifies a standard jar.) **All jars must have new two-piece lids. Re-useable lids and one-piece lids are not allowed.** Decorative storage containers which have a rubber seal are not acceptable for canning exhibits.

5. While it is best to have screw bands on during transit to and from state fair, they should be loosened.

6. Submit two jars each of jam or jelly. One jar will be opened and judged; the other will be exhibited.

7. All preserved foods must follow CSU or USDA recommendations. Jams and jellies should be processed in a boiling water bath.

8. Any jars showing leaks or spoilage will not be judged.

FREEZING AND DRYING— UNITS 1 & 2

Class 3101 Freezing and Drying **Units 1 & 2** Jr.

Class 3102 Freezing and Drying **Units 1 & 2** Int.

Class 3103 Freezing and Drying **Units 1 & 2** Sr.

All exhibits will consist of the following:

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

B. Include the following information on the Food Preservation page:

1. Date
2. Name of product
3. Amount
4. Preparation Method
5. Preservation or processing method used

C. Two of the following:

1. Packaging for freezing and explanation of use.
2. Rotation plan for using foods in the freezer.
3. Six rolls of the same fruit leather or six strips of jerky. Jerky recipes must use Colorado State University recommended procedures. Deer and elk meat are to include a copy of test results for Chronic Wasting Disease. (CWD test mandatory and a copy placed in binder/notebook.)
4. One-half cup of the same dried fruit.
5. One-half cup of the same dried vegetable.
6. One-half cup of mixed vegetables.

D. A copy of the recipe must be attached to ensure that the product is safe.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

BOILING WATER CANNING—UNIT 3

Class 3104 Boiling Water Canning **Unit 3** Jr.

Class 3105 Boiling Water Canning **Unit 3** Int.

Class 3106 Boiling Water Canning **Unit 3** Sr.

All exhibits will consist of the following:

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

B. Include the following information on the Food Preservation page:

1. Date
2. Name of product
3. Amount
4. Preparation Method
5. Preservation or processing method used

C. Any three of the following:

1. Two jars of canned fruits (different kind of fruit in each jar)
2. One jar of tomato sauce
3. One jar of pickled fruit or vegetable, including chutney
4. Two jars of jelly (both must be the same product)
5. Two jars of jam, conserves, fruit butters, preserves, and marmalades (both must be the same product)
6. One jar of pickled relish or salsa

D. A copy of the recipe must be attached to ensure that the product is safe.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

PRESSURE CANNING—UNIT 4

Class 3107 Pressure Canning **Unit 4** Int.

Class 3108 Pressure Canning **Unit 4** Sr.

All exhibits will consist of the following:

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

B. Include the following information on the Food Preservation page:

1. Date
2. Name of product
3. Amount
4. Preparation Method
5. Preservation or processing method used

C. Three of the following:

1. One jar of canned vegetables
2. One jar of spaghetti sauce without meat
3. One jar of canned dried beans
4. One jar of tomato sauce
5. One jar of canned meat
6. One jar of canned meat sauces (example: spaghetti sauce with meat, chili con carne)

D. A copy of the recipe must be attached to ensure that the product is safe.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

HERITAGE ARTS

Terry Schaff..... Superintendent

Note: Please read 4-H Project Exhibit Rules on page 2.

Project Exhibit Rules:

1. Articles may be worn or used before exhibiting but should be clean and in good condition when exhibited.

2. All exhibits must have the name, age and county of the 4-H member attached. Information must be written on cloth and attached securely to each garment/piece.

Note: Small (less than 6"x6") or delicate items should be mounted on an 8"x10" foam core board.

3. It is to the member's advantage to include in the record a band from the skein of any commercial yarn or thread used in the project. This is helpful to judges when evaluating the project.

4. All exhibits using patterns must have the pattern or a clear copy securely attached to the record, as this is useful to the judges when evaluating the project.

Note: All Colorado State Fair silk items or garments will be displayed only with permission and an acknowledgment of possible fading caused by display lights. If forms are not available or are unsigned, the garment will not be displayed.

5. Members are encouraged to select a project that challenges their skills. There are no specific requirements for exhibit items. Quilts do have size requirements.

6. All workmanship in Heritage Arts projects must be done by the member. All piecing and quilting must be done by the member.

7. Miscellaneous Fiber Arts classes include Spinning, Weaving, Ethnic Arts, Rug Making and Macramé.

8. When researching your project for the Heritage Arts Page in the e-Record, list references used:

- Juniors (8-10) one or two references
- Intermediates (11-13) two or three
- Seniors (14 and older) three or more

Note: All exhibits are limited to those that use fiber or fabrics, except for Miscellaneous Heritage Arts-Non-Fiber.

CROCHET – UNIT 1

Class 3201 Crochet Unit 1 Jr.

Class 3202 Crochet Unit 1 Int.

Class 3203 Crochet Unit 1

Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

- Brief history report about the specific craft you selected:
 - Where did it begin?
 - How did it start?
 - Why was it started?
- List references used:
 - Juniors (8-10) one or two references
 - Intermediates (11-13) two or three references
 - Seniors (14 and older) three or more references
- Include the gauge used on your item.
- If a pattern was used, secure a copy of the pattern to the e-Record.

C. One piece or set of up to three coordinated pieces illustrating skills learned. The skill demonstrated in the exhibit will be single crochet.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

CROCHET—UNIT 2

Class 3204 Crochet Unit 2 Jr.

Class 3205 Crochet Unit 2 Int.

Class 3206 Crochet Unit 2 Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

- Discuss yarn substitution:
 - How do you determine to change yarns?
 - How do you adapt your stitches or pattern to different weights of yarn?
- List references used:
 - Juniors (8-10) one or two references
 - Intermediates (11-13) two or three references
 - Seniors (14 and older) three or more references
- If a pattern was used, secure a copy of the pattern to the e-Record.

C. One piece or set of up to three coordinated pieces illustrating skills learned. The skills demonstrated in the exhibit can utilize single crochet and must include at least one of the following:

1. half double
2. double
3. treble
4. color work

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

CROCHET—UNIT 3

Class 3207 Crochet Unit 3 Jr.

Class 3208 Crochet Unit 3 Int.

Class 3209 Crochet Unit 3 Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Discuss blocking and finishing techniques.
 - a. What method of blocking is preferred for different fibers?
 - b. Give examples of the finishing techniques you used to make your project complete.
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three
 - c. Seniors (14 and older) three or more
3. Include the gauge used on your item.
4. If a pattern was used, secure a copy of the pattern to the e-Record.

C. One piece or set of up to three coordinated pieces illustrating skills learned. The skills demonstrated in the exhibit can utilize any techniques learned in the project.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

MISCELLANEOUS HERITAGE ARTS—FIBER (needle arts, weaving, spun skeins, felted bags, batiked fabric, hooked pillows, Navaho rugs, macramé, etc.)

Class 3210 Fiber Arts Jr.

Class 3211 Fiber Arts Int.

Class 3212 Fiber Arts Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Brief history report about the specific craft you selected:
 - a. Where did it begin?
 - b. How did it start?
 - c. Why was it started?
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three references
 - c. Seniors (14 and older) three or more references
3. If pattern was used, secure a copy of the pattern to the e-Record.

C. One piece or a set of up to three coordinated pieces, comprised of a minimum of 50 percent yarn/fabric illustrating skills learned. Can be ethnic- specific to a culture, country, or region. (Example: weavings, spun skeins, felted bags, batiked fabric, hooked pillows, Navaho rug, etc.)

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

MISCELLANEOUS HERITAGE ARTS—NON-FIBER (Native American beading, silver smithing, Ukrainian eggs, paper scrolling, wood carvings, etc.)

Class 3213 Non-Fiber Arts Jr.

Class 3214 Non-Fiber Arts Int.

Class 3215 Non-Fiber Arts Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Brief History report about the specific craft you selected:
 - a. Where did it begin?
 - b. How did it start?
 - c. Why was it started?
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three references
 - c. Seniors (14 and older) three or more references
3. If pattern was used, secure a copy of the pattern to the e-Record.

C. One piece or a set of up to three coordinated pieces, with no yarn or fabric, illustrating skills learned. Can be ethnic-specific to a culture, country or region. Examples: Native American beading, silver smithing, Ukrainian eggs, paper scrolling, wood carving, etc.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

KNITTING – UNIT 1

Class 3216 Knitting Unit 1 Jr.

Class 3217 Knitting Unit 1 Int.

Class 3218 Knitting Unit 1 Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Brief history report about the specific craft you selected:
 - a. Where did it begin?
 - b. How did it start?
 - c. Why was it started?
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three references
 - c. Seniors (14 and older) three or more references
3. Include the gauge used on your item.
4. If a pattern was used, secure a copy of the pattern to the e-Record.

C. One piece or a set of up to three coordinated pieces illustrating what was learned. The skills demonstrated in the exhibit will be one or the other of the following:

- Stockinette stitch
- Garter stitch

Ribbing is optional.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

KNITTING—UNIT 2

Class 3219 Knitting Unit 2 Jr.

Class 3220 Knitting Unit 2 Int.

Class 3221 Knitting Unit 2 Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Discuss yarn substitution:
 - a. How do you determine to change yarns?
 - b. How do you adapt your stitches or pattern to different weights of yarn?
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three

c. Seniors (14 and older) three or more

3. Include the gauge used on your item.

4. If a pattern was used, secure a copy of the pattern to the e-Record.

C. One piece or a set of up to three coordinated pieces illustrating what was learned. The skills demonstrated in the exhibit can utilize Stockinette and/or Garter stitch and must include at least one of the following:

1. lace work
2. cable work
3. color work

Ribbing is optional.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

KNITTING—UNIT 3

Class 3222 Knitting Unit 3 Jr.

Class 3223 Knitting Unit 3 Int.

Class 3224 Knitting Unit 3 Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Discuss blocking and finishing techniques.
 - a. What method of blocking is preferred for different fibers?
 - b. Give examples of the finishing techniques you used to make your project complete.
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three
 - c. Seniors (14 and older) three or more
3. Include the gauge used on your item.
4. If a pattern was used, secure a copy of the pattern to the e-Record.

C. One piece or a set of up to three coordinated pieces illustrating what was learned. The skills demonstrated in the exhibit can utilize any techniques learned in the project.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

QUILTING—UNIT 1

Class 3225 Quilting Unit 1 Jr.

Class 3226 Quilting Unit 1 Int.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Brief history report about the specific craft you selected:
 - a. Where did it begin?
 - b. How did it start?
 - c. Why was it started?
 - d. Historical information of your specific quilt block if applicable.
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three references
3. Include the stitches per inch on your item.
4. List the skills (at least 3) that you learned and are used on your project.
5. If a pattern was used, secure a copy of the pattern to the e-Record.

C. One finished item illustrating what was learned. Items should include **one** of the following:

1. Simple pieced quilt (lap size or smaller)
2. Pillow
3. Pillow sham
4. Two placemats

D. Exhibited items must be quilted – machined or tied.

E. No separate binding should be used.

- a. Items should be finished using a roll-over/self-binding or an envelope turn.

F. Consistent use of 1/4" seams required in all units.

G. Two or more of the following required techniques are allowed:

1. "Sandwiching" – layering quilt top, batting and backing
2. Cutting of precuts and/or stitched pieces, using rulers and rotary cutter
3. Straight block pattern
4. "Nesting" seams
5. Use of sashing
6. Modification of original pattern (size, border, etc.)

H. The exhibit should not use advanced quilting techniques used in Units 3, 4, and 5.

I. Fabric selection allowed

- a. Yardage
- b. Pre-printed panel
- c. Pre-cuts

J. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

QUILTING—UNIT 2

Class **3227** Quilting Unit 2

Jr.

Class **3228** Quilting Unit 2

Int.

Class **3229** Quilting Unit 2

Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Brief history report about the specific craft you selected:
 - a. Where did it begin?
 - b. How did it start?
 - c. Why was it started?
 - d. Historical information of your specific quilt block if applicable.
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three references
 - c. Seniors (14 and older) three or more references
3. Include the stitches per inch on your item.
4. Include the skills (at least three) that you learned and are used on your quilt.
5. If a pattern was used, secure a copy of the pattern to the e-Record.

C. One finished item illustrating what was learned.

Items should include **one** of the following:

1. Quilt 36x36 or larger
2. Table runner
3. Wall hanging

D. Exhibit items must be quilted – machine or tied, rag quilt.

E. A separate binding should be used.

F. Two or more of the following required techniques are allowed:

1. "Sandwiching" – layering quilt top, batting and backing
2. Cutting of precuts and/or stitched pieces, using rulers and rotary cutter
3. Straight block pattern
4. "Nesting" seams
5. Use of sashing
6. Mitered corners

G. The exhibit should not use advanced quilting techniques used in Units 3, 4, and 5.

H. Fabric selection allowed

- a. Yardage
- b. Pre-printed panel
- c. Pre-cuts

I. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

QUILTING—UNIT 3

Class **3230** Quilting Unit 3 Jr.

Class **3231** Quilting Unit 3 Int.

Class **3232** Quilting Unit 3 Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Brief history report about the specific craft you selected:
 - a. Where did it begin?
 - b. How did it start?
 - c. Why was it started?
 - d. Historical information of your specific quilt block if applicable.
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three references
 - c. Seniors (14 and older) three or more references
3. Include the stitches per inch on your item.
4. Include the skills (at least two) that you have learned and are used in your quilt.
5. If a pattern was used, secure a copy of the pattern to the e-Record.

C. One finished item illustrating what was learned. Items should include **one** of the following:

1. Quilt (lap size or larger)
2. Three coordinated pieces, such as a table runner and two placemats or a bed runner and two pillows

D. Exhibited items must be quilted, hand or machine ONLY.

E. A separate binding should be used.

F. Two or more of the following required techniques are allowed:

1. Triangle patterns
2. Embellishments (includes NON-stitched appliques)
3. "Fussy-cuts"
4. Mitered corners
5. "On point" rows
6. Challenging fabric (denim, directional print, etc.)
7. Flange or other "embellished" borders

G. The Exhibit should not use any techniques from Unit 4.

H. Fabric selection allowed

1. Yardage
2. Applique pre-cuts

I. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

QUILTING—UNIT 4

Class **3233** Quilting Unit 4-Original Design Jr.

Class **3234** Quilting Unit 4-Original Design Int.

Class **3235** Quilting Unit 4-Original Design Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Brief history report about the specific craft you selected:
 - a. Where did it begin?
 - b. How did it start?
 - c. Why was it started?
 - d. Historical information of your specific quilt block if applicable.
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three references
 - c. Seniors (14 and older) three or more references
3. Include the stitches per inch on your item.
4. Include the skills (at least two) that you learned and are used on your quilt.

C. One finished item illustrating what was learned. Items should include **one** of the following:

1. Quilt (lap size or larger)
2. Three coordinated pieces, such as a table runner and two placemats or a bed runner and two pillows

D. Exhibit item must be quilted – hand or machine ONLY.

E. A separate binding should be used.

F. Two or more of the following required techniques are allowed;

1. Y-seams
2. Curved piecing
3. Free-motion quilting on standard sewing machine
4. Use of ruler-work for quilting on standard machine
5. Foundation or paper piecing
6. Appliques, with stitched designs

G. No tied quilts or long-arm machine quilting.

H. Fabric selection allowed:

1. Yardage
2. Applique pre-cuts

I. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

QUILTING—UNIT 5 Original Design

Class **3236** Quilting Unit 5-Original Design Jr.

Class **3237** Quilting Unit 5-Original Design Int.

Class **3238** Quilting Unit 5-Original Design Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Brief history report about the specific craft you selected:
 - a. Where did it begin?
 - b. How did it start?
 - c. Why was it started?
 - d. Historical information of your specific quilt block if applicable.
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three references
 - c. Seniors (14 and older) three or more references
3. Include the stitches per inch on your item.
4. Include the following:
 - a. Picture, sketch, or description of inspiration.
 - b. Any sketches, drafts, computer generated designs or blocks.
 - c. Calculations, measurements and any adaptations or changes.
 - d. Process or steps descriptions

C. One finished item illustrating what was learned. Items should include **one** of the following:

1. Quilt (lap size or larger)
2. Coordinated pieces, such as a table runner and two placemats or a bed runner and two pillows

D. Exhibit items must be quilted – hand or machine quilted (traditional or long-arm).

E. A separate binding should be used.

F. Two or more of the required techniques from previous Units, but the design must be **original**.

G. Fabric selection allowed:

1. Yardage
2. Applique pre-cuts

H. NO commercial patterns allowed.

I. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

QUILTING UNIT—6 Long Arm Quilting

Class **3239** Quilting Unit 6 Int.

Class **3240** Quilting Unit 6 Sr.

All exhibits will consist of the following:

A. Completed Heritage Arts e-Record presented in a sturdy binder/notebook.

B. Include the following information on the Heritage Arts page.

1. Brief history report about the specific craft you selected:
 - a. Where did it begin?
 - b. How did it start?
 - c. Why was it started?
 - d. Historical information of your specific quilt block if applicable.
2. List references used:
 - a. Juniors (8-10) one or two references
 - b. Intermediates (11-13) two or three references
 - c. Seniors (14 and older) three or more references
3. Include the stitches per inch on your item.
4. Include the skills (at least two) that you learned and used on your quilt.
5. If a pattern was used, secure a copy of the pattern to the e-Record.

C. One finished item illustrating what was learned. Items should include **one** of the following:

1. Quilt (original design)
2. Wall hanging
3. Clothing article using quilting techniques

D. Exhibited items must use long-arm quilter, free hand, or programmed designs.

E. A separate binding should be used.

F. Use any three of the required techniques from Units 2, 3, or 4.

G. Fabric selection allowed:

1. Yardage
2. Pre-cuts

H. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

HOME DESIGN AND DECOR

Glenda Wentworth..... Superintendent

Note: Please read 4-H Project Exhibit Rules on page 2.

Project Exhibit Rules:

1. Only the current year's records should be submitted.
2. The articles may be used before exhibiting but should be clean and in good condition when exhibited.
3. All exhibit items must have the name, age and county of the exhibitor attached. This information should be attached on the back and at the left-hand corner of the article.

Definitions of Decorative Accessory and Household Items

A decorative accessory is a small decoration piece (not furniture such as end tables, night stands, sofas, chairs or window and floor coverings) which adds spice to a room. Examples:

- Lampshades
- Picture frames
- Trays
- Small jewelry boxes
- Shadow boxes
- Small collectibles
- Vases
- Candlesticks
- Pillows, etc.

A household item is a small useable piece (not furniture such as end tables, night stands, sofas, chairs or window and floor covering).

Examples:

- Wastebasket
- Canister
- Planters
- Foot stools, etc.

HOME DESIGN AND DÉCOR—UNIT 1

Class 3301 Home Design & Decor Unit 1 Jr.

Class 3302 Home Design & Décor Unit 1 Int.

Class 3303 Home Design & Decor Unit 1 Sr.

All exhibits will consist of the following:

A. Completed Home Design and Décor e-Record presented in a sturdy binder/notebook. Include in your project story why you chose your exhibit, how you plan to use it, what other items you made, and what recycled or reusable items you used this year.

B. Include the following information on the Home Design and Décor page: pictures of other recycled items made during your project (a minimum of at least two photos). These are in addition to the photo required in the e-Record.

C. Select one of the following using at least 50 percent recycled or reused items (no furniture):

1. Using recycled material to make one of the following to be used outside.
 - a. Bird feeder or birdhouse
 - b. Wind chime
 - c. Picnic caddy

OR

2. Using at least 50% recycled or reused items (no furniture) to make one of the following items to be used inside the house.
 - a. Centerpiece for table
 - b. Planter
 - c. Room or desk organizer
 - d. Decorative accessory for the home (see definition)
 - e. Household item (see definition)
 - f. Wall hanging (3 x 2)

D. Completed Activity 2 – Color wheel from the manual placed in the e-Record.

E. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

HOME DESIGN AND DECOR—UNIT 2

Class 3304 Home Design and Décor Unit 2 Jr.

Class 3305 Home Design and Décor Unit 2 Int.

Class 3306 Home Design and Décor Unit 2 Sr.

All exhibits will consist of the following:

A. Completed Home Design and Décor e-Record presented in a sturdy binder/notebook. Include in your project story why you chose your exhibit, how you plan to use it and what other items you made.

B. Include the following information on the Home Design and Décor page in the e-Record.

1. Two or more exhibit photos showing item in place where it will be used and as a part of the total room design. These are in addition to the photos required in the e-Record.
2. A statement on how you improved your family's safety or a family escape plan.

C. One item or set from the following:

1. Communication Board (3' x 2')
2. Room or desk organizer
3. A wall hanging 3' x 2'
4. Decorative accessory
5. Household item (see definition)
6. Family escape plan

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

HOME DESIGN AND DÉCOR—UNIT 3

Class 3307 Home Design and Décor Unit 3 Jr.

Class 3308 Home Design and Décor Unit 3 Int.

Class 3309 Home Design and Décor Unit 3 Sr.

All exhibits will consist of the following:

A. Completed Home Design and Decor e-Record presented in a sturdy binder/notebook, including room scheme. Include in your project story why you chose your exhibit, how you plan to use it, what other items you made and what recycled or reusable items you used this year.

B. Select one of the following for an exhibit:

1. A refinished or refurbished piece of furniture. To refurbish is to restore a furniture piece to a new look by repairing damage and/or replacing seating or upholstery caused by heavy wear or neglect. Refinishing is when you strip off the old finish and apply a new finish or color that was not original to that piece of furniture.
 - a. Attach pictures showing the original piece, one during the refinishing or refurbishing process, and one of the completed pieces. These photos are in addition to the photos required in the e-Record.
 - b. A brief description of how the piece(s) fit into the room placed in the e-Record.

OR

2. Select from one of the items below to exhibit:
 - a. A brief description of the window treatment or bedcovering you made or purchased that includes how it fits into the design of the room and, if purchased, why?
 - b. Attach up to 4 photos showing the exhibited item(s) in use in the room. These are in addition to the photos required in the e-Record.

OR

3. An emergency weather plan for your family. Where would you go? What type of items would you have in case of emergency? What personal items would you take with you? Place the emergency plan in the e-Record.

C. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).

HOME DESIGN AND DECOR—UNIT 4

Class 3310 Home Design and Decor Unit 4 Int.

Class 3311 Home Design and Decor Unit 4 Sr.

All exhibits will consist of the following:

A. Completed Home Design and Décor e-Record presented in a sturdy binder/notebook.

B. Include in the e-Record a written statement with the following information:

1. Goals
2. What your plan was for this project.
3. Did you accomplish your goals?
4. List the resources that you used.
5. How did you share your project?
6. How did you evaluate your project?

C. Select one from the following for an exhibit:

1. Design board (art board, corrugated plastic, etc.) 22" x 30". Foam core or foam board for mounting samples. The design board will include samples of paint, fabric, flooring, etc., for the room you are designing.

OR

2. Job Shadow Exhibit—display board (3' x 4') demonstrating what profession you are interested in and who you job-shadowed (profession, job title of person shadowing, what you learned from the experience, and if you still want to be in the profession, why or why not?).

Include pictures or any record you have kept providing evidence of your job shadow experience.

OR

3. Portfolio Exhibit –
 - a. A physical representation of the career or business product such as a model, prototype or display/portfolio that includes images of accomplished work.
 - b. Written explanation that demonstrates knowledge of the related career or business field, potential careers, and the appropriate requirements for achievement in that field.

D. Project will be evaluated on the quality of the information completed in the e-Record (25 percent) and quality of the exhibit (75 percent).