2022 COLORADO STATE FAIR
4-H EXHIBIT REQUIREMENTS
FOR GENERAL AND CONSUMER SCIENCES DIVISIONS

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Superintendents

Morgan Young - General Building Superintendent
Josilyn Lutze - General Building 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: (J, I, S) = Junior, Intermediate, Senior

All Contest Requirements can be found in the 2021-22 Contest Requirements at: co4h.colostate.edu

COLORADO STATE UNIVERSITY
EXTENSION

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 are allowed on display boards (thumb tacks, fishing hooks, etc.)

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 8, through FairEntry. Each county will be assigned a time to bring projects on either TUESDAY, August 16, or Wednesday, August 17. Exhibits will be taken down on Tuesday, September 6. 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 9:00 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 exhibit 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 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.

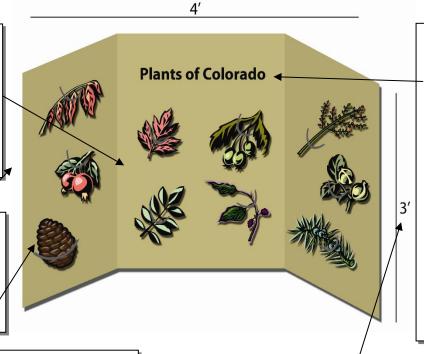*Follow these guidelines to create a display board for the state fair.*

4′

Plants of Colorado

3′

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.

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.

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.

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 DEPARMENT

ANIMAL SCIENCE

VETERINARY SCIENCE

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

FROM AIREDALES TO ZEBRAS—UNIT 1

Class 101   From Airedales to Zebras   Jr.

Class 102   From Airedales to Zebras   Int.

Class 103   From Airedales to Zebras   Sr.

ALL SYSTEMS GO!—UNIT 2

Class 104   All Systems Go   Jr.

Class 105   All Systems Go   Int.

Class 106   All Systems Go   Sr.

ON THE CUTTING EDGE—UNIT 3

Class 107   On the Cutting Edge   Jr.

Class 108   On the Cutting Edge   Int.

Class 109   On the Cutting Edge   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.

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).

HORSELESS HORSE

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

HORSELESS HORSE—UNIT 1

Class 201   Unit 1   Jr.

Class 202   Unit 1   Int.

Class 203   Unit 1   Sr.

HORSELESS HORSE—UNIT 2

Class 204   Unit 2   Jr.

Class 205   Unit 2   Int.

Class 206   Unit 2   Sr.

HORSELESS HORSE—UNIT 3

Class 207   Unit 3   Jr.

Class 208   Unit 3   Int.

Class 209   Unit 3   Sr.

HORSELESS HORSE—UNIT 4

Class 210   Unit 4   Jr.

Class 211   Unit 4   Int.

Class 212   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

CAT 1—PURR-FECT PALS

Class 301	Cat 1	Jr.
Class 302	Cat 1	Int.
Class 303	Cat 1	Sr.

CAT 2—CLIMBING UP

Class 304	Cat 2	Jr.
Class 305	Cat 2	Int.
Class 306	Cat 2	Sr.

CAT 3—LEAPING FORWARD

Class 307	Cat 3	Jr.
Class 308	Cat 3	Int.
Class 309	Cat 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 (Formerly Welding)

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 WELDING—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:
   a.   One each: Lap, Butt and 90-degree T joints Requirements:
      i.   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
      ii.   On clean steel with no paint, oil, or other finishes
      iii.   Single pass weld on one side of each required joint
      iv.   Name, County and Class number on bottom of each completed joint in permanent ink or paint
   b.   An exhibit up to 3'x3'x7' and under **50 lbs**.
      i.   No paint, oil, or other finishes
      ii.   No grinding or smoothing of welds
      iii.   Metal only – No wood, plastic, or other building materials on the project to be judged
   c.   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)

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      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 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:
   a.   An exhibit project up to 3'x3'x7' and under **100 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.   No moving parts – must be a static item (no hinges, wheels, slides, etc.)
      v.   No additional features (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.

ADVANCED METAL FABRICATION—UNIT 3

Class 507   Metal Fabrication Unit 3   Jr.

Class 508   Metal Fabrication Unit 3   Int.

Class 509   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:
   a.   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.

LARGE EXHIBIT FABRICATION—UNIT 4

Class 510   Metal Fabrication Unit 4   Jr.

Class 511   Metal Fabrication Unit 4   Int.

Class 512   Metal 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 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.

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	Jr.
Class 602	Computer Science	Int.
Class 603	Computer Science	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	Jr.
Class 608	Computer Science	Int.
Class 609	Computer Science	Sr.

DISCOVERING COMPUTER SCIENCE & PROGRAMMING THROUGH SCRATCH
Level 2

Display Board Exhibits

Class 610	Computer Science	Int.
Class 611	Computer Science	Sr.

Intermediate Programming

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

Stand-Alone Exhibits

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

DISCOVERING COMPUTER SCIENCE & PROGRAMMING THROUGH SCRATCH
Level 3

Display Board Exhibits

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

Advanced Programming

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

Stand-Alone Exhibit

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

COMPUTERS IN THE 21ST CENTURY

Display Board Exhibits

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

Stand-Alone Exhibits

Class 624	Computers 21st Century	Int.
Class 625	Computers 21st Century	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 Phython, 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).

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

MAGIC OF ELECTRICITY—UNIT 1

Class 701   Magic of Electricity   Jr.

Class 702   Magic of Electricity   Int.

Class 703   Magic of Electricity   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   Jr.

Class 705   Investigating Electricity   Int.

Class 706   Investigating Electricity   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   Jr.

Class 708   Wired for Power   Int.

Class 709   Wired for Power   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   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 **<u>vertically</u>** 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 2 rockets – one for exhibit and one to launch.

Note: Please read specific rules for your unit.

INTRODUCTION TO ROCKETRY—UNIT 1

Balsa Fins Only

Class 801	Introduction to Rocketry	Jr.
Class 802	Introduction to Rocketry	Int.
Class 803	Introduction to Rocketry	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	Jr.
Class 805	Basic Model Rocketry	Int.
Class 806	Basic Model Rocketry	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	Jr.
Class 808	Intermediate Model Rocketry	Int.
Class 809	Intermediate Model Rocketry	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	Jr.
Class 811	Advanced Model Rocketry	Int.
Class 812	Advanced Model Rocketry	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   Jr.

Class 814   Designer Model Rocketry   Int.

Class 815   Designer Model Rocketry   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: Ardunio 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	Jr.
Class 902	Give Robotics a Hand	Int.
Class 903	Give Robotics a Hand	Sr.

Stand-Alone Exhibits

Class 904	Give Robotics a Hand	Jr.
Class 905	Give Robotics a Hand	Int.
Class 906	Give Robotics a Hand	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	Jr.
Class 908	Robots on the Move	Int.
Class 909	Robots on the Move	Sr.

Stand-Alone Exhibits

Class 910	Robots on the Move	Jr.
Cass 911	Robots on the Move	Int.
Cass 912	Robots on the Move	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	Jr.
Class 914	Mechatronics	Int.
Class 915	Mechatronics	Sr.

Stand-Alone Exhibits

Class 916	Mechatronics	Jr.
Class 917	Mechatronics	Int.
Class 918	Mechatronics	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   Jr.

Class 920   Platforms—Beginner   Int.

Class 921   Platforms—Beginner   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   Jr.

Class 923   Platforms—Intermediate   Int.

Class 924   Platforms—Intermediate   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   Jr.

Class 926   Platform—Advanced   Int.

Class 927   Platform—Advanced   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   Jr.

Class 929   Team Robotics   Int.

Class 930   Team Robotics   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   Jr.

Class 1002   Crank It Up   Int.

Class 1003   Crank It Up   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   Jr.

Class 1005   Warm It Up   Int.

Class 1006   Warm It Up   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   Jr.

Class 1008   Tune It Up   Int.

Class 1009   Tune It Up   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   Jr.

Class 1011   Advanced Small Engines   Int.

Class 1012   Advanced Small Engines   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   Jr.

Class 2402 Measuring Up   Int.

Class 2403 Measuring Up   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   Jr.

Class 2405 Making the Cut   Int.

Class 2406 Making the Cut   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   Jr.

Class 2408 Nailing It Together   Int.

Class 2409 Nailing It Together   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   Jr.

Class 2411 Finishing Up   Int.

Class 2412 Finishing Up   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. New this year, 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 that particular 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.

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

Class 1101 Learning About Insects   Jr.

Class 1102 Learning About Insects   Int.

Class 1103 Learning About Insects   Sr.

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: INSECT COLLECTION—UNIT 2

Class 1104 Beginner Collection   Jr.

Class 1105 Beginner Collection   Int.

Class 1106 Beginner 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.

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).

TEAMING WITH INSECTS—ANY LEVEL: ADVANCED—UNIT 6

Class 1116 Exploring with Insects Adv   Jr.

Class 1117 Exploring with Insects Adv   Int.

Class 1118 Exploring with Insects Adv   Sr.

All exhibits will consist of the following:

A. Completed e-Record with emphasis on your accomplishments in your story, presented in a sturdy binder/notebook.

B. A display board representing some phase of your special project work. This could include a chart or special equipment used or developed. 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).

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.

SEE THEM SPROUT—UNIT 1

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

LET'S GET GROWING! —UNIT 2

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

TAKE YOUR PICK—UNIT 3

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

GROWING PROFITS—UNIT 4 (Senior Advanced)

Class 410	Growing Profits	Sr. Adv.

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: pages 43, 44 & 45 in See Them Sprout; pages 45, 46 & 47 in Let's Get Growing; pages 45. 46 & 47 in Take Your Pick; and pages 45, 46 & 47 in Growing a Profit in the e-Record.

B. A display board illustrating a topic investigated during the project year. The standardized display board size of 4 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).

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   Jr.

Class 1202   Hiking Trails   Int.

Class 1203   Hiking Trails   Sr.

CAMPING ADVENTURES—UNIT 2

Class 1204   Camping Adventures   Jr.

Class 1205   Camping Adventures   Int.

Class 1206   Camping Adventures   Sr.

BACKPACKING EXPEDITIONS—UNIT 3

Class 1207   Backpacking Expeditions   Jr.

Class 1208   Backpacking Expeditions   Int.

Class 1209   Backpacking Expeditions   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

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' feet 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	Jr.
Class 1302 Archery	Int.
Class 1303 Archery	Sr.

AIR RIFLE

Class 1304 Air Rifle	Jr.
Class 1305 Air Rifle	Int.
Class 1306 Air Rifle	Sr.

SHOTGUN

Class 1307 Shotgun	Jr.
Class 1308 Shotgun	Int.
Class 1309 Shotgun	Sr.

.22 RIFLE

Class 1310 .22 Rifle	Jr.
Class 1311 .22 Rifle	Int.
Class 1312 .22 Rifle	Sr.

.22 PISTOL

Class 1313 .22 Pistol	Jr.
Class 1314 .22 Pistol	Int.
Class 1315 . 22 Pistol	Sr.

BLACK POWDER MUZZLELOADING

Class 1316 Muzzleloading   Jr.

Class 1317 Muzzleloading   Int.

Class 1318 Muzzleloading   Sr.

AIR PISTOL

Class 1319 Air Pistol   Jr.

Class 1320 Air Pistol   Int.

Class 1321 Air Pistol   Sr.

WESTERN HERITAGE

Class 1322 Western Heritage   Jr.

Class 1323 Western Heritage   Int.

Class 1324 Western Heritage   Sr.

OUTDOOR SKILLS

Class 1325 Outdoor Skills   Jr.

Class 1326 Outdoor Skills   Int.

Class 1327 Outdoor Skills   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.

Class 1335 Shotgun Stand Alone   Int.

Class 1336 Shotgun Stand Alone   Sr.

AIR PISTOL

Class 1337 Air Pistol Stand Alone   Jr.

Class 1338 Air Pistol Stand Alone   Int.

Class 1339 Air Pistol Stand Alone   Sr.

.22 RIFLE

Class 1340 .22 Rifle Stand Alone   Jr.

Class 1341 .22 Rifle Stand Alone   Int.

Class 1342 .22 Rifle Stand Alone   Sr.

.22 PISTOL

Class 1343 .22 Pistol Stand Alone   Jr.

Class 1344 .22 Pistol Stand Alone   Int.

Class 1345 .22 Pistol Stand Alone   Sr.

WESTERN HERITAGE

Class 1346 Western Heritage Stand Alone   Jr.

Class 1347 Western Heritage Stand Alone   Int.

Class 1348 Western Heritage Stand Alone   Sr.

OUTDOOR SKILLS

Class 1349 Outdoor Stand-Alone   Jr.

Class 1350 Outdoor Stand-Alone   Int.

Class 1351 Outdoor Stand-Alone   Sr.

BLACK POWDER MUZZLELOADING

Class 1352 Muzzleloading Stand Alone   Jr.

Class 1353 Muzzleloading Stand Alone   Int.

Class 1354 Muzzleloading Stand Alone   Sr.

DECORATIVE EXHIBIT ITEMS

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

Class 1355 Decorative Item   Jr.

Class 1356 Decorative Item   Int.

Class 1357 Decorative Item   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. (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.)

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.

TAKE THE BAIT—UNIT 1

Class 1401 Take the Bait	Jr.
Class 1402 Take the Bait	Int.
Class 1403 Take the Bait	Sr.

REEL IN THE FUN—UNIT 2

Class 1404 Reel in the Fun	Jr.
Class 1405 Reel in the Fun	Int.
Class 1406 Reel in the Fun	Sr.

CAST INTO THE FUTURE—UNIT 3

Class 1407 Cast into the Future	Jr.
Class 1408 Cast into the Future	Int.
Class 1409 Cast into the Future	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 I

Class 1410 Sportfishing Stand Alone	Jr.
Class 1411 Sportfishing Stand Alone	Int.
Class 1412 Sportfishing Stand Alone	Sr.

Reel in the Fun Unit 2

Class 1413 Sportfishing Stand Alone	Jr.
Class 1414 Sportfishing Stand Alone	Int.
Class 1415 Sportfishing Stand Alone	Sr.

Cast into the Future Unit 3

Class 1416 Sportfishing Stand Alone	Jr.
Class 1417 Sportfishing Stand Alone	Int.
Class 1418 Sportfishing Stand Alone	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.
1. Record each fishing experience:
   a. date
   b. location
   c. type (pond, lake, reservoir, stream, river or other),
   d. 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/lure used
   c. technique used
   d. types of structure fished
   e. other things you want to remember about this trip.

C. 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.**

D. No knives are to be displayed.

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).

WILDLIFE

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.

WILDLIFE CONSERVATION—UNIT 1—The Worth of Wild Roots

Class 1501 The Worth of Wild Roots   Jr.

Class 1502 The Worth of Wild Roots   Int.

Class 1503 The Worth of Wild Roots   Sr.

WILDLIFE CONSERVATION—UNIT 2—Living Wild in an Ecosystem

Class 1504 Living Wild in an Ecosystem   Jr.

Class 1505 Living Wild in an Ecosystem   Int.

Class 1506 Living Wild in an Ecosystem   Sr.

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

Class 1507 Managing in a World   Jr.

Class 1508 Managing in a World   Int.

Class 1509 Managing in a World   Sr.

STAND-ALONE ITEMS (For all units)

Class 1510 Stand-Alone Item   Jr.

Class 1511 Stand-Alone Item   Int.

Class 1512 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, 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).

BEEKEEPING

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 BEEKEEPING—UNIT 2   Jr.

Class 1608 BEEKEEPING—UNIT 2   Int.

Class 1609 BEEKEEPING—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 BEEKEEPING—UNIT 2   Jr.

Class 1611 BEEKEEPING—UNIT 2   Int.

Class 1612 BEEKEEPING—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 BEEKEEPING—UNIT 2   Jr.

Class 1614 BEEKEEPING—UNIT 2   Int.

Class 1615 BEEKEEPING—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 STAND-ALONE

Class 1616 BEEKEEPING—UNIT 2   Jr.

Class 1617 BEEKEEPING—UNIT 2   Int.

Class 1618 BEEKEEPING—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 BEEKEEPING—UNIT 3   Jr.

Class 1623 BEEKEEPING—UNIT 3   Int.

Class 1624 BEEKEEPING—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 BEEKEEPING—UNIT 3   Jr.

Class 1626 BEEKEEPING—UNIT 3   Int.

Class 1627 BEEKEEPING—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 BEEKEEPING—UNIT 3   Jr.

Class 1629 BEEKEEPING—UNIT 3   Int.

Class 1630 BEEKEEPING—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 BEEKEEPING—UNIT 3   Jr.

Class 1632 BEEKEEPING—UNIT 3   Int.

Class 1633 BEEKEEPING—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 4½" x 4½ "(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 BEEKEEPING—UNIT 3   Jr.

Class 1635 BEEKEEPING—UNIT 3   Int.

Class 1636 BEEKEEPING—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 ADV. BEEKEEPING   Int.

Class 1638 ADV. BEEKEEPING   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

TBD……………………. Superintendent

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		Jr.
Class 1702 Glazes		Int.
Class 1703 Glazes		Sr.
Class 1704 Bisque Option		Jr.
Class 1705 Bisque Option		Int.
Class 1706 Bisque Option		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	Jr.
Class 1708 Underglazes	Int.
Class 1709 Underglazes	Sr.
Class 1710 Bisque Option	Jr.
Class 1711 Bisque Option	Int.
Class 1712 Bisque Option	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   Jr.

Class 1714 Overglazes   Int.

Class 1715 Overglazes   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   Jr.

Class 1717 Unfired Finishes   Int.

Class 1718 Unfired Finishes   Sr.

Class 1719 Bisque Option   Jr.

Class 1720 Bisque Option   Int.

Class 1721 Bisque Option   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   Jr.

Class 1723 Porcelain Dolls   Int.

Class 1724 Porcelain Dolls   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   Jr.

Class 1726 Hand-Constructed   Int.

Class 1727 Hand-Constructed   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

Class 1801 Study of Another Country   Jr.

Class 1802 Study of Another Country   Int.

Class 1803 Study of Another Country   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

Class 1804 Host a Delegate from Another Country
                                                        Jr.

Class 1805 Host a Delegate from Another Country
                                                        Int.

Class 1806 Host a Delegate from Another Country
                                                        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

Class 1807 Youth Counselor   Int.

Class 1808 Youth Counselor   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

Class 1809 Exchange Delegate to Another Country   Int.

Class 1810 Exchange Delegate to Another Country   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.

INDIVIDUAL SKILLS FOR JR. AND INT. MEMBERS

Class 1901 Ind. Skills for Junior Members   Jr.

Class 1902 Ind. Skills for Intermediate Members Int.

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 1903   Leadership Road Trip   Int.

Class 1904   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 1905 Put Leadership to Practice   Int.
            (Club Leadership I Manual)

Class 1906 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 1907 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 1908 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. Advanced leathercraft members Units 4-10 may exhibit in more than one of the classes, provided the member is enrolled in and has completed the requirements of each of the units exhibited in.

5. **Unit 8 is now an advanced creative stamping. It is recommended that 1st year-juniors take Unit 1 Intro to Stamping before taking Unit 8.**

6. Definitions:
   Carving—is where you cut into the leather (usually with a swivel knife) as part of the design you are tooling.
   Stamping/Tooling—is where you use impressions made from tools to form a design.
   Cord—is round and waxed thread.
   Lace—is flat with a shiny side and a rough side.
   Background Dyeing—dyeing a solid color to the area tooled with the backgrounder.
   Solid color dying—is where you dye the whole project the same color. For example, you tool a belt and then dye it all black, or you make a book cover and dye it all one color.
   Color shading—is where you use shades of color to make the design look more realistic. For example, you can use darker and lighter shades of a color on a flower you have tooled to make it look realistic, or an animal or figure of any kind.
   Staining/Antiquing—using an antique finish like saddle tan; apply and remove/rub on and wipe off.
   Clear finish—is a finish that has no color in it. For example, oil (no color added), leather finish spray or wipe on that has no color mixed in it.

INTRODUCTION TO LEATHERCRAFT & CREATIVE STAMPING—UNIT 1

Class 2001 Intro to Leathercraft & Stamping   Jr.

Class 2002 Intro to Leathercraft & Stamping   Int.

Class 2003 Intro to Leathercraft & Stamping   Sr.

All exhibits will consist of the following:

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

B: Exhibit three (3) articles. *** Place the exhibit items on a board 12"x18"x 1/8" or ¼" (preferably pegboard)*** to which items are attached by means of lacing or thread: One each from categories below:
   1. One article or one set of articles on flat leather with no lacing or stitching. Examples: bookmark, wrist bracelet, set of coasters.
   2. One article with at least two pieces of leather that are sewed together with lace using a whip stitch or running stitch. Pre-cut kits or self-cut leather may be used. Examples: key case or knife sheath.
   3. One article with at least two pieces of leather that are sewed together with cord stitching. Use pre-cut kits with pre-punched holes. Example: coin purse.

C. Apply a clear finish to complete your article.

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).

Note: *No carving, solid-color dyeing, color shading and or antiquing is permitted.*

BEGINNING LEATHER CARVING LEATHERCRAFT—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 board 12"x18"x 1/8" or ¼" (preferably pegboard)* to which items are attached by means of lacing or thread:
   1. Three samples with labels showing:
      a. Use of swivel knife and camouflage tool.
      b. Steps shown in sample a and b as well as use of pear shader, beveller and veiner.
      c. Steps shown in samples a and b as well as use of seeder, backgrounder and decorative cuts. Clear leather finish applied to sample c (optional for samples a and b). **Note: The labels should reflect the tools used for each sample.**

2. Two completed articles using tools and skills studied in Unit 2, which include lacing (at least one with double-loop lacing).

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).

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

INTERMEDIATE LEATHER CARVING—UNIT 3

Class 2007 Leather Carving   Jr.

Class 2008 Leather Carving   Int.

Class 2009 Leather Carving   Sr.

All exhibits will consist of the following:

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

B. One completed carved article or set that includes at least one of the major skills: carved conventional design inverted carving techniques, simple molding and shaping or hand stitching. **Only clear finish and if laced the double loopstitch is required.**

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).

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

ADVANCED UNITS 4 – 10

ADVANCED LEATHER CARVING—UNIT 4

Class 2010 Advanced Leather Carving   Jr.

Class 2011 Advanced Leather Carving   Int.

Class 2012 Advanced Leather Carving   Sr.

All exhibits will consist of the following:

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

B. Any article or set, other than a picture, of either conventional or realistic design, demonstrating one or more of the major skills learned in this unit: figure carving, embossing or filigree work. Background dyeing, antiquing and two-tone finishing is optional in this unit.

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).

Note: Solid-color dyeing and color shading will not be permitted in Unit 4.

COLORING AND SHADING—UNIT 5

Class 2013 Coloring and Shading   Jr.

Class 2014 Coloring and Shading   Int.

Class 2015 Coloring and Shading   Sr.

All exhibits will consist of the following:

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

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

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).

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

PICTORIAL CARVING—UNIT 6

Class 2016 Pictorial Carving   Jr.

Class 2017 Pictorial Carving   Int.

Class 2018 Pictorial Carving   Sr.

All exhibits will consist of the following:

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

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

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).

MAKING AND REBUILDING SADDLES—UNIT 7

Class 2019 Making and Rebuilding Saddles   Jr.

Class 2020 Making and Rebuilding Saddles   Int.

Class 2021 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. The leather may be either tooled or untooled and may be finished in any suitable fashion.

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).

ADVANCED CREATIVE STAMPING—UNIT 8

Class 2022 Creative Stamping   Jr.

Class 2023 Creative Stamping   Int.

Class 2024 Creative Stamping   Sr.

All exhibits will consist of the following:

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

B. One completed article or matching set using creative stamping.

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).

BRAIDING AND UNTOOLED—UNIT 9

Class 2025 Braiding and Untooled   Jr.

Class 2026 Braiding and Untooled   Int.

Class 2027 Braiding and Untooled   Sr.

All exhibits will consist of the following:

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

B. One article or matching set illustrating construction by lacing, braiding, expanding, sculpting, untooled leather construction or leather art technique. Exhibit must use non-tooled and non-sewn leather working techniques. (Minimum tooling required for effect is acceptable.)

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).

SEWING LEATHER—UNIT 10

Class 2028 Sewing Leather   Jr.

Class 2029 Sewing Leather   Int.

Class 2030 Sewing Leather   Sr.

All exhibits will consist of the following:

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

B. One completed article or garment made by sewing leather.

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).

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.

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—UNIT 1 (PHOTOGRAPHY BASICS)

Class 2101 Photography Basics - First Year   Jr.

Class 2102 Photography Basics - First Year   Int.

Class 2103 Photography Basics - First Year   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 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—UNIT 2 (PHOTOGRAPHY BASICS, PART 2)

Class 2104 Photography Basics - Second Year   Jr.

Class 2105 Photography Basics - Second Year   Int.

Class 2106 Photography Basics - Second Year   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 25-27 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.
1. Activity 9 – 4 photos:
   a. 1 photo with clutter (more than 3 items other than focal point)
   b. 2 photos uncluttered – use same focal point for 2 pictures (i.e. focal point tree – clutter and uncluttered; focal pint 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 think/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 photos taken during your entire time in Unit 1 (including the First

and Second Year). These can be photos you have used for exhibit or photos that you took while experimenting with different photography techniques. Using the 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   Jr.

Class 2108 Next Level Photography   Int.

Class 2109 Next Level Photography   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 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 fame 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   Jr.

Class 2111 Mastering Photography   Int.

Class 2112 Mastering Photography   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 29 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.

1. Activity 1 – 2 photos:
   a. 1 photo using 1/250 f8 of a bright scene
   b. 1 photo using 1/250 f8 of a dark scene
2. Activity 2 – 2 photos:
   a. 1 photo using small f-stop
   b. 1 photo using big f-stop
3. Activity 3 – 2 photos:
   a. 2 night photos using correct aperture
4. Activity 4 – 1 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 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:
    a. Make a posterboard joiner

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) - Previously Lightening Photography

Class 2113	Low Light Photos	Jr.
Class 2114	Low Light Photos	Int.
Class 2115	Low Light Photos	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	Jr.
Class 2117	Advanced Photography	Int.
Class 2118	Advanced Photography	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 Photography 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 PHOTO CONTEST
Open to all 4-H members. Photos must be taken in Colorado. Requirements will be in the Contest Requirements document. 4-H Members will submit their entries through FairEntry.

4-H 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.**

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. **<u>A link must be provided to view the video.</u>**
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.
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.

SCRAPBOOKING

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

Youth may exhibit in one or all classes that they choose.

Members who are exhibiting in several classes may copy their e-Record. Each exhibit (class) must have an e-Record. Besure to highlight what you are exhibiting in your e-Record. Story and pictures must be unit specific.

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 scrapbooking page	Jr.
Class 2302 One scrapbooking page	Int.
Class 2303 One scrapbooking page	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) andquality 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 archivalsafe 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	Scrapbook Album	Jr.
Class 2308	Scrapbook Album	Int.
Class 2309	Scrapbook 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 pagesof 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 sturdybinder/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 Art 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, PRINTING

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

GRAPHIC DESIGN

Class 2504	Graphic Designs	Jr.
Class 2505	Graphic Designs	Int.
Class 2506	Graphic Designs	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	Sketchbook Crossroads	Jr.
Class 2508	Sketchbook Crossroads	Int.
Class 2509	Sketchbook Crossroads	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
TBD………………..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, he or she needs to move to another unit because the skills in that unit have already been mastered.*
Also, if a member repeats a unit, he or she 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.

CAKE DECORATING—UNIT 1 EDIBLE CAKE DECORATING

Class 2601	Cake Decorating Unit 1	Jr.
Class 2602	Cake Decorating Unit 1	Int.
Class 2603	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).

CAKE DECORATING—UNIT 2 SINGLE LAYERED CAKE

Class 2604	Cake Decorating Unit 2	Jr.
Class 2605	Cake Decorating Unit 2	Int.
Class 2606	Cake Decorating 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 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).

CAKE DECORATING—UNIT 3 TWO-LAYERED CAKE

Class 2607	Cake Decorating Unit 3	Jr.
Class 2608	Cake Decorating Unit 3	Int.
Class 2609	Cake Decorating 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).

CAKE DECORATING—UNIT 4 CHARACTER CAKES

Class 2610	Cake Decorating Unit 4	Jr.
Class 2611	Cake Decorating Unit 4	Int.
Class 2612	Cake Decorating 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

CAKE DECORATING—UNIT 5 THEMED CUPCAKES

Class 2613	Cake Decorating Unit 5	Jr
Class 2614	Cake Decorating Unit 5	Int.
Class 2615	Cake Decorating 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).

CAKE DECORATING—UNIT 5 STACKED CUPCAKES

Class 2616	Cake Decorating Unit 5	Jr.
Class 2617	Cake Decorating Unit 5	Int.
Class 2618	Cake Decorating 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).

CAKE DECORATING—UNIT 5 CHARACTER CUPCAKES

Class 2619   Cake Decorating Unit 5   Jr.

Class 2620   Cake Decorating Unit 5   Int.

Class 2621   Cake Decorating 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).

CAKE DECORATING—UNIT 5 DECORATED THEMED COOKIES

Class 2622   Cake Decorating Unit 5   Jr.

Class 2623   Cake Decorating Unit 5   Int.

Class 2624   Cake Decorating 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).

CAKE DECORATING—UNIT 5 DECORATED STACKED COOKIES

Class 2625   Cake Decorating Unit 5   Jr.

Class 2626   Cake Decorating Unit 5   Int.

Class 2627   Cake Decorating 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).

CAKE DECORATING—UNIT 5 DECORATED COOKIE CONSTRUCTION

Class 2628 Cake Decorating Unit 5   Jr.

Class 2629 Cake Decorating Unit 5   Int.

Class 2630 Cake Decorating 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).

CAKE DECORATING—UNIT 6 CUT-UP CAKES

Class 2631   Cake Decorating Unit 6   Jr.

Class 2632   Cake Decorating Unit 6   Int.

Class 2633   Cake Decorating 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).

CAKE DECORATING—UNIT 7 FLAT SURFACE AND NAIL FLOWERS

Class 2634   Cake Decorating Unit 7   Int.

Class 2635   Cake Decorating 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).

CAKE DECORATING—UNIT 8 FONDANT

Class 2636   Cake Decorating Unit 8   Int.

Class 2637   Cake Decorating 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).

CAKE DECORATING—UNIT 9 LILY NAIL FLOWERS

Class 2638   Cake Decorating Unit 9   Int.

Class 2639   Cake Decorating 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).

CAKE DECORATING—UNIT 10 TIERED CAKES (SENIORS ONLY)

Class 2640   Cake Decorating 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).

CAKE DECORATING—UNIT 11 MOLDS (SENIORS ONLY)

Class 2641   Cake Decorating 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).

CAKE DECORATING—UNIT 12 CREATE YOUR OWN (SENIORS ONLY)

Class 2642   Cake Decorating 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 new 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 will 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 ½" 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.

UNIT 1—STEAM CLOTHING 1 (BEGINNING)

Class 2801   Pillowcase   Jr.

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).

UNIT 1—STEAM CLOTHING 1 (BEGINNING)

Class 2802   Pillow   Jr.

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.

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 1—STEAM CLOTHING 1 (BEGINNING)

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 2803	Simple Top	Jr.
Class 2804	Simple Top	Int.
Class 2805	Simple Top	Sr.

Simple Bottom

Class 2806	Simple Bottom (pants, pajama bottoms, shorts, skirts,)	Jr.

Class 2807	Simple Bottom (pants, pajama bottoms, shorts, skirts)	Int.
Class 2908	Simple Bottom (pants, pajama bottoms, shorts, skirts)	Sr.

Simple Dress

Class 2809	Simple Dress	Jr.
Class 2810	Simple Dress	Int.
Class 2811	Simple Dress	Sr.

UNIT 2—STEAM CLOTHING 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, button holes, 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 button holes.

Members can exhibit in one or more of the following classes:

Top

Class 2812	Top (vest acceptable)	Jr.
Class 2813	Top (vest acceptable)	Int.
Class 2814	Top (vest acceptable)	Sr.

Bottoms

Class 2815	Bottom (pants or shorts)	Jr.
Class 2816	Bottom (pants or shorts)	Int.
Class 2817	Bottom (pants or shorts)	Sr.

Skirt

Class 2818	Skirt	Jr.
Class 2819	Skirt	Int.
Class 2820	Skirt	Sr.

Dress

Class 2821	Dress (not formal wear)	Jr.
Class 2822	Dress (not formal wear)	Int.
Class 2823	Dress (not formal wear)	Sr.

Romper

Class 2824	Romper or Jumpsuit	Jr.
Class 2825	Romper or Jumpsuit	Int.
Class 2826	Romper or Jumpsuit	Sr.

Two-Piece Outfit

Class 2827	Two-Piece Outfit	Jr.
Class 2828	Two-Piece Outfit	Int.
Class 2829	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.).

Class 2836	Cotton or Cotton Blend	Int.
Class 2837	Cotton or Cotton Blend	Sr.
Class 2838	Synthetics and Rayon	Int.
Class 2839	Synthetics and Rayon	Sr.
Class 2840	Wool and Wool Blend	Int.
Class 2841	Wool and Wool Blend	Sr.
Class 2842	Silk and Silk-Like	Int.
Class 2843	Silk and Silk-Like	Sr.
Class 2844	Specialty Fabrics	Int.
Class 2845	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).

Class 2830	Sewing for Others Unit 7	Jr.
Class 2831	Sewing for Others Unit 7	Int.
Class 2832	Sewing for Others Unit 7	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

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, appliqués, 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-statin 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—UNIT 4

Class 2910   Recycled Clothing Unit 8   Jr.

Class 2911   Recycled Clothing Unit 8   Int.

Class 2912   Recycled Clothing Unit 8   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—UNIT 5

Class 2913   Costumes   Jr.

Class 2914   Costumes   Int.

Class 2915   Costumes   Sr.

Class 2916   All Other Exhibits   Jr.

Class 2917   All Other Exhibits   Int.

Class 2918   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—UNIT 6

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—UNIT 7

Class 2921   Create Your Own   Int.
               Exploration of Textiles and Clothing

Class 2922   Create Your Own   Sr.

Exploration of Textiles and Clothing

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

TBD…….……….…..……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.**

COOKING 101—UNIT 1   Exhibits

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:
   1. Foods prepared
   2. Number of times
   3. Special Concerns

C. Documentation of two completed learning activities from the manual in the record book.

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).

Members can exhibit in one or more of the following classes:

Class 3001   No Bake Cookies   Jr.

Class 3002   No Bake Cookies   Int.

Class 3003   No Bake Cookies   Sr.

E. Four no-bake cookies of one recipe that is no-bake or made using stovetop or microwave.

Class 3004   Baked Bar Cookies   Jr.

Class 3005   Baked Bar Cookies   Int.

Class 3006   Baked Bar Cookies   Sr.

E. Four baked bar cookies of one recipe.

Class 3007   Cookies   Jr.

Class 3008   Cookies   Int.

Class 3009   Cookies   Sr.

E. 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).

COOKING 201—UNIT 2 Exhibits

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:
   1. Foods prepared
   2. Number of times
   3. Special Concerns

C. Documentation of one completed learning activity on food safety and one on cooking basics. These can be a demonstration, written reports or displays.

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).

Members can exhibit in one or more of the following classes:

Class 3010	Quick Breads	Jr.
Class 3011	Quick Breads	Int.
Class 3012	Quick Breads	Sr.

E. One loaf quick bread any size (not yeast bread)

Class 3013	Scones	Jr.
Class 3014	Scones	Int.
Class 3015	Scones	Sr.

E. Four scones of one recipe.

Class 3016	Muffins	Jr.
Class 3017	Muffins	Int.
Class 3018	Muffins	Sr.

E. Four muffins of one recipe.

COOKING 301—UNIT 3 Exhibits

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:
   1. Foods prepared
   2. Number of times
   3. Special Concerns

C. Documentation of one completed food science experiment from the manual in the e-Record.

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).

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:

Class 3019	Shortened Cakes	Jr.
Class 3020	Shortened Cakes	Int.
Class 3021	Shortened Cakes	Sr.

E. One shortened cake without frosting

Class 3022	Yeast Rolls	Jr.
Class 3023	Yeast Rolls	Int.
Class 3024	Yeast Rolls	Sr.

E. Four kneaded yeast rolls of one variety and shape or four cinnamon rolls.

Class 3025	Creative Yeast Bread	Jr.
Class 3026	Creative Yeast Bread	Int.
Class 3027	Creative Yeast Bread	Sr.

E. One recipe creative yeast bread, i.e. French bread, braided bread, other specialty bread.

Class 3028	Party Planning	Jr.
Class 3029	Party Planning	Int.
Class 3030	Party Planning	Sr.

E. Creative exhibit (notebook) illustrating party planned by member, including theme, timeline and menu that includes one or more home-prepared foods.

COOKING 401—UNIT 4 Exhibits

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:
   1. Foods prepared
   2. Number of times
   3. Special Concerns

C. Documentation of one completed food science experiment from the manual in the e-Record.

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).

Members can exhibit in one or more of the following classes:

Class 3031	Flatbread	Jr.
Class 3032	Flatbread	Int.
Class 3033	Flatbread	Sr.

E. Four flatbreads of one variety and shape

| Class 3034 | Double Crust Pie | Jr. |
| Class 3035 | Double Crust Pie | Int. |

Class 3036	Double Crust Pie	Sr.

E. One 8" x 9" double-crust fruit pie made with homemade fruit filling in a disposable pie tin. No canned fruit fillings.

Class 3037	Celebration Meals	Jr.
Class 3038	Celebration Meals	Int.
Class 3039	Celebrations Meals	Sr.

E. Creative exhibit (notebook) illustrating celebration meals planned by member, including budget, timeline, and menu that includes two or more homemade prepared foods.

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.

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 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.

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	Jr.
Class 3102	Freezing and Drying	Int.
Class 3103	Freezing and Drying	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	Jr.
Class 3105	Boiling Water Canning	Int.
Class 3106	Boiling Water Canning	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   Int.

Class 3108   Pressure Canning   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

TBD…………………… 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.

Note: All exhibits are limited to those that use fiber or fabrics, except for Miscellaneous Heritage Arts-Non-Fiber.

CROCHET

Class 3201	Crochet	Jr.
Class 3202	Crochet	Int.
Class 3203	Crochet	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 set of up to three coordinated pieces illustrating skills 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).

MISCELLANEOUS HERITAGE ARTS—FIBER (Needle Arts, Weaving, Spun skeins, Felted bags, Batiked fabric, hooked pillows, Navaho rugs, Macramé, etc.)

Class 3204	Fiber Arts	Jr.
Class 3205	Fiber Arts	Int.
Class 3206	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 3207	Non-Fiber Arts	Jr.
Class 3208	Non-Fiber Arts	Int.
Class 3209	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

Class 3210	Knitting	Jr.
Class 3211	Knitting	Int.
Class 3212	Knitting	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.

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 3213	Quilting Unit 1	Jr.
Class 3214	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. 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 ¼" 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 3215   Quilting Unit 2   Jr.

Class 3216   Quilting Unit 2   Int.

Class 3217   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 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 3218   Quilting Unit 3   Jr.

Class 3219   Quilting Unit 3   Int.

Class 3220   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 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 (lab 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. Only applique pre-cuts 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 4

Class 3221   Quilting Unit 4-Original Design   Jr.

Class 3222   Quilting Unit 4-Original Design   Int.

Class 3223   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

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. Only applique pre-cuts 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 5 Original Design

Class 3224   Quilting Unit 5-Original Design   Jr.

Class 3225   Quilting Unit 5-Original Design   Int.

Class 3226   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. Only applique pre-cuts allowed

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).

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 allowed

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).

QUILTING UNIT—6 Long Arm Quilting

Class 3227   Quilting Unit 6   Int.

Class 3228   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.

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 & Décor Unit 1   Jr.

Class 3302   Home Design & Décor Unit 1   Int.

Class 3303   Home Design & Décor 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).