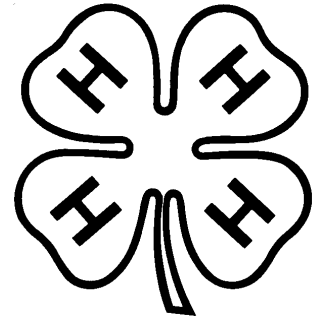


2020-2021 SYLLABUS



**Class Numbers and
Exhibit Requirements for:**

Cake Decorating
Clothing & Fashion Revue
Foods
Heritage Arts
Home Design & Décor
4-H General Projects
Primary Projects
Shooting Sports

Kit Carson County Fair / Colorado State Fair

DEPARTMENTS:

L – 4-H Home Economics

M – General 4-H Projects

N – Shooting Sports

RELEASE TIME FOR ALL PROJECTS:

Saturday July 31 – 2:00 - 3:00 p.m.

<u>DEPT.</u>	<u>ENTRY</u>	<u>JUDGING</u>
L – Clothing & Fashion Revue (including Primary Dec Your Duds)	<i>Tuesday, July 20 – 9:00 a.m.</i>	<i>Tuesday, July 20 – 9:00 a.m.</i>
M – General 4-H	<i>Friday, July 23 – 5:00 – 7:00 p.m.</i>	<i>Saturday, July 24 – 9:00 a.m.</i>
M – Primary (excluding Dec Your Duds & Foods)	<i>Friday, July 23 – 5:00 – 7:00 p.m.</i>	<i>Saturday, July 24 – 9:00 a.m.</i>
N – Shooting Sports	<i>Friday, July 23 – 5:00 – 7:00 p.m.</i>	<i>Saturday, July 24 – 9:00 a.m.</i>
L –Home Design & Décor & Heritage Arts	<i>Friday, July 23 – 5:00 – 7:00 p.m.</i>	<i>Saturday, July 24 – 9:00 a.m.</i>
L – Foods (including Primary Foods)	<i>Saturday, July 24 – 9:00 a.m.</i>	<i>Saturday, July 24 – 9:00 a.m.</i>
L – Cake Decorating	<i>Saturday, July 24 – 1:00 p.m.</i>	<i>Saturday, July 24 – 1:00 p.m.</i>

PREMIUMS – DEPARTMENTS L - M - N

Blue Award – \$5.00

Red Award – \$4.00
Primary Award -- \$3.00

White Award – \$3.00

TABLE OF CONTENTS

(Items marked with an * are not eligible to go to State Fair)

Consumer Science – Department L

Cake Decorating.....	4
Clothing Construction	7
Artistic Clothing (including Primary Decorate Your Duds*).....	10
Fashion Revue	12
Foods (including Primary Foods*)	13
Food Preservation	16
Heritage Arts	18
Home Design & Décor.....	20

General Projects – Department M

Animal Science	
Veterinary Science	22
Horseless Horse	22
Cats	23
Biological Science	
Gardening.....	23
Mechanical Science	
Welding	24
Computers	24
Electric.....	26
Model Rocketry	27
Robotics & Engineering	29
Small Engines	31
Natural Resources	
Entomology	32
Outdoor Adventures	33
Sportfishing	34
Wildlife	35
Beekeeping	35
Communication, Arts, & Leisure Sciences	
Ceramics	38
Global Citizenship	40
Leadership.....	41
Leathercraft	42
Photography	44
Filmmaking	47

Scrapbooking	48
Woodworking.....	50
Visual Arts	50

Other General Projects – Department M

* Primary 4-H Projects	51
(Primary Foods* & Decorate Your Duds* are listed in Department L)	

4-H Shooting Sports – Department N

4-H Shooting Sports	52
---------------------------	----

Displays for Colorado 4-H Project Exhibits 55

Hints for Excellent Exhibits & Record Books 56

NOTE: *Exhibits that exceed project skill, number or size requirements will not be considered for champion, reserve champion, or blue placing.*

DEPARTMENT L

CONSUMER SCIENCE

DEPT. L – CAKE DECORATING

4-H PROJECT EXHIBIT 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 prior to December 31st 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. If a member enrolls in two units of the same project (Leathercraft for example: member enrolls in Unit 2 and Unit 3 – they must exhibit at the higher level – Unit 3). When a member takes two units at the same time, they should master the skills of the lower unit and therefore exhibit in the higher unit.
5. 4-H e-Records may be completed by pencil, ink, or by computer. The choice will not affect judging.
6. Display board must meet the specifications. The standardized display board size of 4' x 3' is to be used for 4-H projects.
7. Projects are divided by Junior, Intermediate and Senior age groups. The age for Juniors is 8-10, Intermediates is 11-13, and Seniors is 14-18.
8. All projects will be judged on the Danish system. All exhibits will be placed in a blue, red or white group and receive ribbons accordingly.
9. Champion and Reserve Champion ribbons shall be awarded if applicable. Grand Champion and Reserve Grand Champion exhibitors will be declared in each project 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 Champions and Reserve Champion exhibits in the class from which the Grand Champion was chosen will be eligible for Reserve Grand Champion consideration.
10. Only the first place exhibit in each project class will be eligible to exhibit at State Fair and will be awarded a Champion ribbon; second place will receive a Reserve Champion ribbon.
11. All parts of the exhibit must be labeled with exhibitor's name, age and county. All exhibits must be accompanied by a completed entry tag. **For security reasons, do not put address on project.**
12. Exhibits that do not meet exhibit standards and requirements will not be considered for Champion or Reserve Champion.
13. No binders with slider closures will be allowed.
14. For any type of video exhibit for the fair this year, we will be asking the 4-H member to upload the video to a secure 4-H website. Instructions will be sent out later to county staff and enrolled active members.

NOTE: Please read 4-H Project Exhibit Rules on page 1.

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 1 ½" 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 a 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 order as numbered and are for Juniors, Intermediates, and Seniors. Units 7-9 do not have to be taken in 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 Units 7-10, as they hold up better under Fair conditions.
4. Once a 4-H member has received a placing in the top 10 or a Grand Champion at State Fair, they need to move to another unit because they have mastered the skills in this unit. Also, if a member repeats a unit they must show what new skill they have learned by repeating the unit.
5. No non-edible material can be used in Units 1-6.
6. Lower units (1-3) in Cake Decorating should not use Royal Icing or Roller Fondant as the base frosting. No Fondant can be used in Units 1, 2 or 3. Only required tip work can be used in units 2 and 3.
7. Exhibits requiring over a 2' x 2' exhibit area **must** be checked 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. Also for Unit 8, two of the four cakes are required to be totally covered with fondant.
10. Unit 11 is molds and three molds are required plus the exhibit mold for a total of 4.
11. Unit 12 --- 75% 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 cakes placed on top of each other. This is used for Units 3, 7, 8 & 9.

NOTE: For more information on displays and projects:
www.colorado4h.org/project_resources/StateFairExhibitReq.pdf
Look under Display Hints and Tips and Project Tips.

CLASS 2601. UNIT 1 – Edible Cake Decorating – Junior

Exhibit 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" or 9" square or round, or 9" x 13" rectangle) 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 the cake should be visible to show smooth base.** No royal icing can be used as icing or decorations on the cake. **No non-edible materials can be used in Units 1-6.**
- E. **Bottom base border required.**
- F. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2602. UNIT 1 – Edible Cake Decorating – Intermediate

Exhibit requirements the same as for CLASS 2601.

CLASS 2603. UNIT 1 – Edible Cake Decorating – Senior

Exhibit requirements the same as for CLASS 2601.

CLASS 2604. UNIT 2 – Single-Layered Cake – Junior

Exhibit 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" or 9" round or square or 9" x 13") using a leaf tip, star tip and writing tip. **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 material 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 is required.**

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

CLASS 2605. UNIT 2 – Single-Layered Cake – Intermediate

Exhibit requirements the same as for CLASS 2604.

CLASS 2606. UNIT 2 – Single-Layered Cake – Senior

Exhibit requirements the same as for CLASS 2604.

CLASS 2607. UNIT 3 – Two-Layered Cake – Junior

Exhibit 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. 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" or 9" round or square) using 3-5 different types of tips in decorating. You must use the writing, 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 material 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2608. UNIT 3 – Two-Layered Cake – Intermediate

Exhibit requirements the same as for CLASS 2607.

CLASS 2609. UNIT 3 – Two-Layered Cake – Senior

Exhibit requirements the same as for CLASS 2607.

CLASS 2610. UNIT 4 – Character Cakes – Junior

Exhibit 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 character cakes plus the exhibit (**TOTAL of 5**) (All 5 character cakes must be real cakes):

1. occasion for use
2. 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 character cake (an entire cake which resembles the shape of a character or object made without cutting, 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. **No non-edible material 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2611. UNIT 4 – Character Cakes – Intermediate
Exhibit requirements the same as for CLASS 2610.

CLASS 2612. UNIT 4 – Character Cakes – Senior
Exhibit requirements the same as for CLASS 2610.

CLASS 2613. UNIT 5 – Themed Cupcakes – Junior
Exhibit 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, plus the exhibit cupcakes, for a minimum of five 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 (themed cupcakes mean that there is a central idea between all the cupcakes; example: animal theme, flower theme; Disney characters cupcakes do not have to be all the same). Place each decorated cupcake in a disposable 6-cup muffin tin or a container that matches the theme and is no larger than 10-inch round (example: tea cups, ice cream cones, etc.) Frosting must cover the cupcake and provide a base for decorations. One-fourth of the frosting must be visible on at least one cupcake. Spatula

painting and brush striping are optional. Please label with the Exhibitor's name and county. No non-edible materials can be used.

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

CLASS 2614. UNIT 5 – Themed Cupcakes – Intermediate
Exhibit requirements the same as for CLASS 2613.

CLASS 2615. UNIT 5 – Themed Cupcakes – Senior
Exhibit requirements the same as for CLASS 2613.

CLASS 2616. UNIT 5 – Stacked Cupcakes – Junior
Exhibit 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, plus the exhibit cupcakes, for a minimum of five 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. One-fourth of the frosting must be visible on at least one cupcake. 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 no 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2617. UNIT 5 – Stacked Cupcakes – Intermediate
Exhibit requirements the same as for CLASS 2616.

CLASS 2618. UNIT 5 – Stacked Cupcakes – Senior
Exhibit requirements the same as for CLASS 2616.

CLASS 2619. UNIT 5 – Character Cupcakes – Junior

Exhibit 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, 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. 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. Design should be one dimension – No stacking.**

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. One-fourth of the frosting must be visible on at least one cupcake. 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 a 14" round. No non-edible materials can be used.

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

CLASS 2620. UNIT 5 – Character Cupcakes – Intermediate

Exhibit requirements the same as for CLASS 2619.

CLASS 2621. UNIT 5 – Character Cupcakes – Senior

Exhibit requirements the same as for CLASS 2619.

CLASS 2622. UNIT 5 – Decorated Themed Cookies – Junior

Exhibit 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 three required batches of cookies in addition to photos of your 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 (3") cookies displayed on a disposable base no larger than 12", labeled with the exhibitor's name and county. Cookies should be of a similar design or theme. Cookies are decorated using frosting and edible materials. Spatula painting and brush striping are optional. Base Frosting – poured icing, buttercream, royal icing, run-in sugar – must cover the cookie and provide a base for decorations. One-fourth frosting must be visible on at least one cookie. Fondant and royal icing can be used only for decorations.
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2623. UNIT 5 – Decorated Themed Cookies – Intermediate

Exhibit requirements the same as for CLASS 2622.

CLASS 2624. UNIT 5 – Decorated Themed Cookies – Senior

Exhibit requirements the same as for CLASS 2622.

CLASS 2625. UNIT 5 – Decorated Stacked Cookies – Junior

Exhibit 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 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. Cookies stacked on top of each other and decorated to create one design or theme that is a minimum of 6" and maximum of 12" 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". 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%) and quality of exhibit (75%).

CLASS 2626. UNIT 5 – Decorated Stacked Cookies – Intermediate

Exhibit requirements the same as for CLASS 2625.

CLASS 2627. UNIT 5 – Decorated Stacked Cookies – Senior

Exhibit requirements the same as for CLASS 2625.

CLASS 2628. UNIT 5 – Decorated Cookie Construction – Junior
Exhibit 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 4)**
 - 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 and exhibit cookie structure 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" square and a maximum height of 20". The structure should be placed on a sturdy covered board not to exceed 14" x 14" and labeled with the exhibitor's 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%) and quality of exhibit (75%).

CLASS 2629. UNIT 5 – Decorated Cookie Construction – Intermediate

Exhibit requirements the same as for CLASS 2628.

CLASS 2630. UNIT 5 – Decorated Cookie Construction – Senior

Exhibit requirements the same as for CLASS 2628.

CLASS 2631. Unit 6 – Cut-up Cakes – Junior

Exhibit 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 cut-up cakes plus the exhibit cake **(TOTAL of 5)** (All 5 cut-up 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. edible materials used
 - 7. cost to buy similar cake
 - 8. 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. **Patterns or diagrams for all required cakes must be included in e-Record.**
- 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 must be cut parallel to the shape of the

cake and not exceed 2' x 2' maximum limit. Non-edible internal supports are allowed but must not show. No non-edible materials can be used.

E. Bottom base border required.

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

CLASS 2632. UNIT 6 – Cut-up Cakes – Intermediate

Exhibit requirements the same as for CLASS 2631.

CLASS 2633. UNIT 6 – Cut-Up Cakes – Senior

Exhibit requirements the same as for CLASS 2631.

CLASS 2634. UNIT 7 – Flat Surface & Nail Flowers – Intermediate

Exhibit 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 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-inch 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. No Fondant.
- E. **Side trim is required.**
- F. **Bottom base border required.**
- G. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2635. UNIT 7 – Flat Surface & Nail Flowers – Senior

Exhibit requirements the same as for CLASS 2634.

CLASS 2636. UNIT 8 – Fondant – Intermediate

Exhibit 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 cakes plus the exhibit **(TOTAL of 4)** (At least 2 of the 4 must be real cakes and 2 of the 4 covered with 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 and 2 of the 4 covered with 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-inch round or square covered in fondant and decorated using skills learned from Units 3-7 and 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%) and quality of exhibit (75%).

CLASS 2637. UNIT 8 – Fondant – Senior

Exhibit requirements the same as for CLASS 2636.

CLASS 2638. UNIT 9 – Lily Nail Flowers – Intermediate

Exhibit 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 cakes, plus the exhibit cake (**TOTAL of 4**) (At least 2 of the 4 cakes must be real):
 - 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 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 8, 9, or 10-inch cake or cake form using an example of string work and a flower made on a lily flower nail.
- 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%) and quality of exhibit (75%).

CLASS 2639. UNIT 9 – Lily Nail Flowers – Senior

Exhibit requirements the same as for CLASS 2638.

CLASS 2640. UNIT 10 – Tiered Cakes – Seniors Only

Exhibit 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 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

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 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%) and quality of exhibit (75%).

CLASS 2641. UNIT 11 – Molds – Seniors Only

Exhibit 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 on the three required molded items plus the exhibit item. Mold and shape at least three different edible materials (fondant, gum paste, molding chocolate, candy melts, etc.)
 - 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

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

- 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.
- D. One molded or shaped object may be on a decorated cake, a cake form or an independent display in a case (no larger than 10") to protect the item from harm.
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2642. UNIT 12 – Create Your Own – Seniors Only

Exhibit 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 to provide evidence of your accomplishments. This notebook is considered to be your main project exhibit and will count for 75 percent of the scoring. If an item was made as a 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' x 1' 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%) and quality of the content of the notebook (75%).

DEPT. L – CLOTHING CONSTRUCTION

Note: Please read 4-H Project Exhibit Rules on page 1.

1. With these new sewing manuals, a member may stay in the manuals until they have mastered the techniques. Beginning Clothing STEAM 1 is for beginner sewers, those with little to no experience. Beginning Clothing STEAM 2 is for sewers who are familiar with the basic techniques and ready to learn more advanced skills. Clothing STEAM 3 is for the advanced sewer who wants to learn more about tailoring and advanced skills. Clothing STEAM 3 is for intermediate and senior members.
2. 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 or typed on a label and securely attached to inside of garment. This will assist in case of property loss. (These labels are available at the Extension Office at no charge.)
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 Clothing STEAM 1.
5. Due to the difficulty of skills involved, buttonholes and button loops are to be used in Clothing STEAM 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 Clothing STEAM 3 – Complete one textile experiment using your garment fashion fabric each year.** Include this information in your clothing construction e-Record: completed experiment sheet(s) 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 securely attached 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 constructed in Clothing STEAM 1, 2 and 3 and Unit 8 are to be made for the member with the exception of Unit 7 – Sewing for Others.

NOTE: All Colorado State Fair silk items or garments will be displayed only with "permission to display" form which acknowledges possible fading caused by state fair display lighting. Permission to display forms are available at the 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 in your e-Record what you are exhibiting.

BEGINNING CLOTHING STEAM 1

CLASS 2801. Pillowcase – Junior

Exhibit 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 page of the Clothing Construction e-Record.
- E. Pillowcase illustrating the skills learned in Clothing STEAM 1.
- F. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2802. Pillow – Junior

Exhibit 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 on the Expense page of the Clothing Construction e-Record.
- E. Simple Pillow – No larger than 18" x 18" illustrating the skills learned in Clothing STEAM 1.
- F. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

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

CLASS 2803. Simple Top – Junior

Exhibit 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 page of the Clothing Construction e-Record.
- E. An exhibit illustrating the skills learned in Clothing STEAM 1. Exhibits must use a firmly-woven, medium-weight cotton or at least 50% cotton-blend fabric. Exhibit should be a simple pattern

with no more than five pattern pieces without set-in sleeves, zippers, collars, and no button holes.

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

CLASS 2804. Simple Top – Intermediate

Exhibit requirements the same as for Class 2803.

CLASS 2805. Simple Top – Senior

Exhibit requirements the same as for Class 2803.

CLASS 2806. Simple Bottom – Junior

(pants, pajama bottoms, shorts, skirts)

Exhibit requirements the same as for CLASS 2803.

CLASS 2807. Simple Bottom – Intermediate

(pants, pajama bottoms, shorts, skirts)

Exhibit requirements the same as for CLASS 2803

CLASS 2808. Simple Bottom – Senior

(pants, pajama bottoms, shorts, skirts)

Exhibit requirements the same as for CLASS 2803.

CLASS 2809. Simple Dress – Junior

Exhibit requirements the same as for CLASS 2803.

CLASS 2810. Simple Dress – Intermediate

Exhibit requirements the same as for CLASS 2803.

CLASS 2811. Simple Dress – Senior

Exhibit requirements the same as for CLASS 2803

BEGINNING CLOTHING STEAM 2

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

CLASS 2812. Top (vest acceptable) – Junior

Exhibit will consist of the following:

- A. Completed Clothing Construction e-Record with pattern instruction sheet presented in a sturdy binder/notebook. Include in your project 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 on the Expense page of the Clothing Construction e-Record.
- E. An exhibit illustrating the skills learned in Clothing STEAM 2. Exhibits may use any woven or knit fabric appropriate to the garment's design and should demonstrate sewing skills beyond Clothing STEAM 1. The exhibit **MUST INCLUDE** one or more of

the following techniques: set-in sleeves, zippers, collars, cuffs or button holes.

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

CLASS 2813. Top (vest acceptable) – Intermediate

Exhibit requirements the same as for CLASS 2812.

CLASS 2814. Top (vest acceptable) – Senior

Exhibit requirements the same as for CLASS 2812.

CLASS 2815. Bottom (pants or shorts) – Junior

Exhibit requirements the same as for CLASS 2812.

CLASS 2816. Bottom (pants or shorts) – Intermediate

Exhibit requirements the same as for CLASS 2812.

CLASS 2817. Bottom (pants or shorts) – Senior

Exhibit requirements the same as for CLASS 2812.

CLASS 2818. Skirt – Junior

Exhibit requirements the same as for CLASS 2812.

CLASS 2819. Skirt – Intermediate

Exhibit requirements the same as for CLASS 2812.

CLASS 2820. Skirt – Senior

Exhibit requirements the same as for CLASS 2812.

CLASS 2821. Dress (not formal wear) – Junior

Exhibit requirements the same as for CLASS 2812.

CLASS 2822. Dress (not formal wear) – Intermediate

Exhibit requirements the same as for CLASS 2812.

CLASS 2823. Dress (not formal wear) – Senior

Exhibit requirements the same as for CLASS 2812.

CLASS 2824. Romper or Jumpsuit – Junior

Exhibit requirements the same as for CLASS 2812.

CLASS 2825. Romper or Jumpsuit – Intermediate

Exhibit requirements the same as for CLASS 2812.

CLASS 2826. Romper or Jumpsuit – Senior

Exhibit requirements the same as for CLASS 2812.

CLASS 2827. Two-Piece Outfit – Junior

Exhibit requirements the same as for CLASS 2812.

CLASS 2828. Two-Piece Outfit – Intermediate

Exhibit requirements the same as for CLASS 2812.

CLASS 2829. Two-Piece Outfit – Senior

Exhibit requirements the same as for CLASS 2812.

CLASS 2830. UNIT 7 – Sewing for Others – Junior

Exhibit 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 you included 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%) and completed e-Record (25%).

CLASS 2831. UNIT 7 – Sewing for Others – Intermediate

Exhibit requirements the same as for CLASS 2830.

CLASS 2832. UNIT 7 – Sewing for Others – Senior

Exhibit requirements the same as for CLASS 2830.

CLASS 2833. UNIT 8 – Recycled Clothing – Junior

Exhibit 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 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 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. Include the cost of each garment on the Expense page of the Clothing Construction e-Record.
- D. One garment or outfit which illustrates what was learned. Garment must be of fabric and be sewn.
- E. Project will be evaluated on the quality of construction techniques, creativity of adaptation (75%) and completed e-Record (25%).

CLASS 2834. UNIT 8 – Recycled Clothing – Intermediate

Exhibit requirements the same as for CLASS 2833.

CLASS 2835. UNIT 8 – Recycled Clothing – Senior

Exhibit requirements the same as for CLASS 2833.

ADVANCED CLOTHING CONSTRUCTION

Garments should demonstrate sewing skills beyond Clothing STEAM 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.). For Intermediate & Senior members only.

CLOTHING STEAM 3**CLASS 2836. Cotton or Cotton Blend – Intermediate**

Exhibit 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 1/2" x 11" heavy paper in the e-Record.
- D. Include the cost of each garment on the Expense page of the Clothing Construction e-Record.
- E. A garment or outfit containing a majority of 50-100% cotton.
- F. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2837. Cotton or Cotton Blend – Senior

Exhibit requirements the same as for CLASS 2836.

CLASS 2838. Synthetic/Rayon – Intermediate

Exhibit 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 1/2" x 11" heavy paper in the e-Record.
- D. Include the cost of each garment on the Expense page of the Clothing Construction e-Record.

- E. One garment or outfit of fabric containing 50-100% of synthetic/rayon.
- F. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2839. Synthetics/Rayon – Senior

Exhibit requirements the same as for CLASS 2838.

CLASS 2840. Wool/Wool Blend – Intermediate

Exhibit 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 on the Expense page of the Clothing Construction e-Record.
- E. One garment or outfit of fabric containing 50-100% of wool or wool-blend.
- F. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2841. Wool/Wool Blend – Senior

Exhibit requirements the same as for CLASS 2840.

CLASS 2842. Silk/Silk-Like – Intermediate

Exhibit 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 of 8 ½" x 11" heavy paper in the e-Record.
- D. Include the cost of each garment on the Expense page of the Clothing Construction e-Record.
- E. One garment or outfit of fabric containing 50-100% of silk or silk-like fibers.

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

CLASS 2843. Silk/Silk-Like – Senior

Exhibit requirements the same as for CLASS 2842.

CLASS 2844. Specialty Fabrics (Leather, Fur, Linen, Ramie, Hemp, Sequined, Beaded, etc.) – Intermediate

- 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 on the Expense page of the Clothing Construction e-Record.
- E. One garment or outfit using a specialty fabric such as sequined, beaded, fleece, leather, linen, etc.
- F. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2845. Specialty Fabrics (Leather, Fur, Linen, Ramie, Hemp, Sequined, Beaded, etc.) – Senior

Exhibit requirements the same as for CLASS 2844.

DEPT. L – ARTISTIC CLOTHING

Note: Please read 4-H Project Exhibit Rules on page 1.

Project Exhibit Rules:

- 1. Requirement: All exhibit garments must be labeled with name, age, and 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 property loss. (These labels are available at the Extension Office at no charge.)
- 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. (No accessory items, i.e. shoes, jewelry, hats, etc.) All clothing pieces must be securely attached together on hangers.
- 4. 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 "permission to display" form which acknowledges possible fading caused by state fair display lighting. Permission to display forms are available at the Extension offices.*

CLASS 2900. PRIMARY Decorate Your Duds (Youth 5-7)

Exhibit will consist of the following:

- A. Exhibit article.
- B. Completed record book.

CLASS 2901. Upcycle Your Style – Applied – Junior

Exhibit 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 is to 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 (no accessory items, i.e. shoes, jewelry, etc.) Decoration is attached by gluing, fusing or painting. Examples: jewels, puff paints, appliques, tie-dye.
- D. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2902. Upcycle Your Style – Applied – Intermediate

Exhibit requirements the same as for CLASS 2901.

CLASS 2903. Upcycle Your Style – Applied – Senior

Exhibit requirements the same as for CLASS 2901.

CLASS 2904. Upcycle Your Style – Stitched – Junior

Exhibit 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 is to 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 (no accessory items, i.e. shoes, jewelry). Decoration may be hand- or machine-stitched. Examples: applique where satin stitch, etc., is used, embroidery, quilting, beading or knitting or crochet (by self or others).

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

CLASS 2905. Upcycle Your Style – Stitched – Intermediate

Exhibit requirements the same as for CLASS 2904.

CLASS 2906. Upcycle Your Style – Stitched – Senior

Exhibit requirements the same as for CLASS 2904.

CLASS 2907. Upcycle Your Style – Combination – Junior

Exhibit 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 is to 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 (no accessory items, i.e. shoes, 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2908. Upcycle Your Style – Combination – Intermediate

Exhibit requirements the same as for CLASS 2907.

CLASS 2909. Upcycle Your Style – Combination – Senior

Exhibit requirements the same as for CLASS 2907.

CLASS 2910. UNIT 5 – Creative Sewing – Costumes – Junior

Exhibit 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, 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. One to three coordinated items illustrating what was learned (costumes, puppets, accessories, toys, stuffed animals, book bags, sleeping bags, etc.)
- D. Project will be evaluated on creativity used in making your exhibit (45%), the quality of construction (30%) and completed e-Record (25%).

Note: Small items such as accessories and small doll clothes are to be displayed on a display board.

CLASS 2911. UNIT 5 – Creative Sewing – Costumes – Intermediate

Exhibit requirements the same as for CLASS 2910.

CLASS 2912. UNIT 5 – Creative Sewing – Costumes – Senior

Exhibit requirements the same as for CLASS 2910.

CLASS 2913. UNIT 5 – Creative Sewing – All Other Exhibits – Junior

Exhibit requirements the same as for CLASS 2910.

CLASS 2914. UNIT 5 – Creative Sewing – All Other Exhibits – Intermediate

Exhibit requirements the same as for CLASS 2910.

CLASS 2915. UNIT 5 – Creative Sewing – All Other Exhibits – Senior

Exhibit requirements the same as for CLASS 2910.

CLASS 2916. UNIT 7 – Create Your Own – Exploration of Textiles & Clothing – Intermediates

- 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, how the item will be used, and if you recycled or reused any fabric or other materials for your project.
- 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/display related to special study. The standardized display board size of 4' x 3' is to be used for all 4-H projects.
- D. Project will be evaluated on the quality of content from e-Record and written description (50%) and quality of construction of the item or quality of display board (50%).

CLASS 2917. UNIT 7 – Create Your Own – Exploration of Textiles & Clothing – Senior

Exhibit requirements the same as for CLASS 2916.

CLASS 2918. UNIT 8 – Buymanship – Intermediate

Exhibit 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:
 - 1. Self-assessment (Getting to Know Myself)
 - 2. Wardrobe Inventory
 - 3. Clothing Plan of Action
 - 4. Selecting Becoming Colors
- C. One completed outfit, including 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%) and quality of exhibit (75%).

CLASS 2919. UNIT 8 – Buymanship – Senior

Exhibit requirements the same as for CLASS 2918.

DEPT. L – FASHION REVUE

CLASS 98. STEAM 1 – Junior

CLASS 99. STEAM 1 – Intermediate

CLASS 100. STEAM 1 – Senior

CLASS 101. STEAM 2 – Junior

CLASS 102. STEAM 2 – Intermediate

CLASS 103. STEAM 2 – Senior

CLASS 104. STEAM 3 – Junior

CLASS 105. STEAM 3 – Intermediate

CLASS 106. STEAM 3 – Senior

CLASS 107. UNIT 8 – Recycled Clothing – Junior

CLASS 108. UNIT 8 – Recycled Clothing – Intermediate

CLASS 109. UNIT 8 – Recycled Clothing – Senior

CLASS 110. Decorate Your Duds – Primary

CLASS 111. Upcycle Your Style – Junior

CLASS 112. Upcycle Your Style – Intermediate

CLASS 113. Upcycle Your Style – Senior

CLASS 114. UNIT 8 Buymanship – Intermediate

CLASS 115. UNIT 8 Buymanship – Senior

CLASS 116. Crochet Heritage Arts – Junior

CLASS 117. Crochet Heritage Arts – Intermediate

CLASS 118. Crochet Heritage Arts – Senior

CLASS 119. Knitting Heritage Arts – Junior

CLASS 120. Knitting Heritage Arts – Intermediate

CLASS 121. Knitting Heritage Arts – Senior

DEPT. L – FOODS

NOTE: Please read 4-H Project Exhibit Rules on page 1.

Project Exhibit Rules:

1. With these new foods 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 attached 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 okay.**
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 recipe in manual is used, may need to adjust 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 its own 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 on or in recipes where there is a large proportion of cheese is not acceptable either.
9. For those members who are exhibiting more than one item in a unit, they may copy their e-Record. Each exhibit must have an e-Record. Be sure to highlight in the e-Record what item you are exhibiting.

CLASS 3000. PRIMARY 4-H FOODS (Youth 5-7)

Exhibit will consist of the following:

- A. Four no-bake cookies.
- B. Completed record.

COOKING 101

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

CLASS 3001. UNIT 1 – No Bake Cookies – Junior

Exhibit 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 & 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. Four no-bake cookies or bars of one recipe that is no-bake or made using stovetop or microwave.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3002. UNIT 1 – No Bake Cookies – Intermediate

Exhibit requirements the same as for CLASS 3001.

CLASS 3003. UNIT 1 – No Bake Cookies – Senior

Exhibit requirements the same as for CLASS 3001.

CLASS 3004. UNIT 1 – Baked Bar Cookies – Junior

Exhibit will consist of the following:

- A. Completed e-Record with exhibit recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. Four baked bar cookies of one recipe.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3005. UNIT 1 – Baked Bar Cookies – Intermediate

Exhibit requirements the same as for CLASS 3004.

CLASS 3006. UNIT 1 – Baked Bar Cookies – Senior

Exhibit requirements the same as for CLASS 3004.

CLASS 3007. UNIT 1 – Cookies – Junior

Exhibit will consist of the following:

- A. Completed e-Record with exhibit recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. Four baked, drop or molded cookies of one recipe. (Molded cookies are also made from a stiffer dough that is molded into

balls or cookie shapes by hand before baking. Snickerdoodles are an example of molded cookies.)

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

CLASS 3008. UNIT 1 – Cookies – Intermediate

Exhibit requirements the same as for CLASS 3007.

CLASS 3009. UNIT 1 – Cookies – Senior

Exhibit requirements the same as for CLASS 3007.

COOKING 201

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

CLASS 3010. UNIT 2 – Quick Breads – Junior

Exhibit will consist of the following:

- A. Completed e-Record with a copy of the original recipe and the modified recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. One loaf quick bread, any size (not yeast bread).
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3011. UNIT 2 – Quick Breads – Intermediate

Exhibit requirements the same as for CLASS 3010.

CLASS 3012. UNIT 2 – Quick Breads – Senior

Exhibit requirements the same as for CLASS 3010.

CLASS 3013. UNIT 2 – Scones – Junior

Exhibit will consist of the following:

- A. Completed e-Record with a copy of the original recipe and the modified recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. Four scones of one recipe.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3014. UNIT 2 – Scones – Intermediate

Exhibit requirements the same as for CLASS 3013.

CLASS 3015. UNIT 2 – Scones – Senior

Exhibit requirements the same as for CLASS 3013.

CLASS 3016. UNIT 2 – Muffins – Junior

Exhibit will consist of the following:

- A. Completed e-Record with a copy of the original recipe and the modified recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. Four muffins of one recipe.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3017. UNIT 2 – Muffins – Intermediate

Exhibit requirements the same as for CLASS 3016.

CLASS 3018. UNIT 2 – Muffins – Senior

Exhibit requirements the same as for CLASS 3016.

COOKING 301

Members can exhibit in one or more of the following:

CLASS 3019. UNIT 3- Shortened Cakes – Junior

(Shortened 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.)

Exhibit will consist of the following:

- A. Completed e-Record with a copy of the original recipe and the modified recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. One shortened cake without frosting.
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3020. UNIT 3 – Shortened Cakes – Intermediate

Exhibit requirements the same as for CLASS 3019.

CLASS 3021. UNIT 3 – Shortened Cakes – Senior

Exhibit requirements the same as for CLASS 3019.

CLASS 3022. UNIT 3 – Yeast Rolls – Junior

Exhibit will consist of the following:

- A. Completed e-Record with a copy of the original recipe and the modified recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. Four kneaded yeast rolls of one variety and shape or four cinnamon rolls.
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3023. UNIT 3 – Yeast Rolls – Intermediate

Exhibit requirements the same as for CLASS 3022.

CLASS 3024. UNIT 3 – Yeast Rolls – Senior

Exhibit requirements the same as for CLASS 3022.

CLASS 3025. UNIT 3 – Creative Yeast Bread – Junior

Exhibit will consist of the following:

- A. Completed e-Record with a copy of the original recipe and the modified recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. One recipe creative yeast bread, i.e. French bread, braided bread, other specialty bread.
- E. Project will be evaluated on the quality of the information completed in the e-record (25%) and quality of exhibit (75%).

CLASS 3026. UNIT 3 – Creative Yeast Bread – Intermediate

Exhibit requirements the same as for CLASS 3025.

CLASS 3027. UNIT 3 – Creative Yeast Bread – Senior

Exhibit requirements the same as for CLASS 3025.

CLASS 3028. UNIT 3 – Party Planning – Junior

Exhibit will consist of the following:

- A. Completed e-Record with a copy of the original recipe and the modified recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. Creative exhibit (notebook) illustrating party planned by member, including theme, timeline and menu that includes one or more home-prepared foods.
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3029. UNIT 3 – Party Planning – Intermediate

Exhibit requirements the same as for CLASS 3028.

CLASS 3030. UNIT 3 – Party Planning - Senior

Exhibit requirements the same as for CLASS 3028.

COOKING 401

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

CLASS 3031. UNIT 4 – Flatbread – Junior

Exhibit will consist of the following:

- A. Completed e-Record with a copy of the original recipe and the modified recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. Four flatbreads of one variety and shape.
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3032. UNIT 4 – Flatbread – Intermediate

Exhibit requirements the same as for CLASS 3031.

CLASS 3033. UNIT 4 – Flatbread – Senior

Exhibit requirements the same as for CLASS 3031.

CLASS 3034. UNIT 4 – Double Crust Pie – Junior

Exhibit will consist of the following:

- A. Completed e-Record with a copy of the original recipe and the modified recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. One 8" or 9" double-crust fruit pie made with homemade fruit filling in a disposable pie tin. No canned fruit fillings.
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3035. UNIT 4 – Double Crust Pie – Intermediate

Exhibit requirements the same as for CLASS 3034.

CLASS 3036. UNIT 4 – Double Crust Pie – Senior

Exhibit requirements the same as for CLASS 3034.

CLASS 3037. UNIT 4 – Celebration Meals – Junior

Exhibit will consist of the following:

- A. Completed e-Record with a copy of the original recipe and the modified recipe presented in a sturdy binder/notebook.
- B. Include the following information on the Foods & 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. Creative exhibit (notebook) illustrating celebration meals planned by member, including budget, timeline, and menu that includes two or more homemade prepared foods.
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3038. UNIT 4 – Celebration Meals – Intermediate
Exhibit requirements the same as for CLASS 3037.

CLASS 3039. UNIT 4 – Celebration Meals – Senior
Exhibit requirements the same as for CLASS 3037.

CLASS 3040. UNIT 25 – Outdoor Cooking & Living – Junior
Exhibit 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 & 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 display illustrating what was learned about camp set-up or first aid.
 - A piece of equipment made by the exhibitor (no larger than 3'x3'x3'). 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3041. UNIT 25 – Outdoor Cooking & Living – Intermediate
Exhibit requirements the same as for CLASS 3040.

CLASS 3042. UNIT 25 – Outdoor Cooking & Living – Senior
Exhibit requirements the same as for CLASS 3040.

CLASS 3043. UNIT 30 – Cultural Foods – Intermediate
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 & 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%) and the quality of the food product (50%).

Note: The food product must be safe to hold at room temperature during judging and display.

CLASS 3044. UNIT 30 – Cultural Foods – Senior
Exhibit requirements the same as for CLASS 3043.

CLASS 3045. UNIT 35 – Passport to Foreign Cookery – Intermediate
Exhibit 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, percent 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 & 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 the content in the e-Record and research of selected country (50%) and the quality of the food product (50%).

Note: The food product must be safe to hold at room temperature during judging and display.

CLASS 3046. UNIT 35 – Passport to Foreign Cookery - Senior
Exhibit requirements the same as for CLASS 3045.

DEPT. L – FOOD PRESERVATION

Note: Please read 4-H Project Exhibit Rules on page 1.

Special Exhibit Rules for Food Preservation:

1. All foods must have been preserved since the last 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 fair, they should be loosened or removed for judging.
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.

CLASS 3101. UNITS 40 & 41 – Freezing & Drying – Junior

Exhibit 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 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 the binder/notebook.)
 4. One-half cup of dried fruit.
 5. One-half cup of dried vegetable.
- 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3102. UNITS 40 & 41 – Freezing & Drying – Intermediate

Exhibit requirements the same as for CLASS 3101.

CLASS 3103. UNITS 40 & 41 – Freezing & Drying – Senior

Exhibit requirements the same as for CLASS 3101.

CLASS 3104. UNIT 42 – Boiling Water Canning – Junior

Exhibit 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 canned fruit and one jar of canned vegetables.
 3. One jar of tomato sauce.
 4. One jar of pickled fruit or vegetable, including chutney.
 5. Two jars of jelly (both must be the same product).
 6. Two jars of jam, conserves, fruit butters, preserves, and marmalades (both must be the same product).
 7. 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3105. UNIT 42 – Boiling Water Canning – Intermediate

Exhibit requirements the same as for CLASS 3104.

CLASS 3106. UNIT 42 – Boiling Water Canning – Senior

Exhibit requirements the same as for CLASS 3104.

CLASS 3107. UNIT 43 – Pressure Canning – Intermediate

Exhibit 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3108. UNIT 43 – Pressure Canning – Senior

Exhibit requirements the same as for CLASS 3109.

DEPT. L – HERITAGE ARTS

NOTE: Please read 4-H Project Exhibit Rules on page 1.

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" x 6") or delicate items should be mounted on an 8" x 10" 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 acknowledgement 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 will include Needle Arts, Spinning, Weaving, Ethnic Arts, Rug Making and Macramé.

Note: All exhibits are limited to those that use fiber or fabrics, with the exception of Miscellaneous Heritage Arts – Non Fiber.

CLASS 3201. Crochet – Junior

Exhibit 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 & 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3202. Crochet – Intermediate

Exhibit requirements the same as for CLASS 3201.

CLASS 3203. Crochet – Senior

Exhibit requirements the same as for CLASS 3201.

CLASS 3204. Miscellaneous Fiber Arts – Junior (Needle Arts, Weaving, Spun skeins, Felted bags, Batiked fabric, hooked pillows, Navajo rugs, Macramé, etc.)

Exhibit 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 & 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% yarn/fabric illustrating skills learned. Can be either or specific to a culture, country, or region. (Example: weavings, spun skins, felted bags, batiked fabric, hooked pillows, Navajo rug, etc.)
- D. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3205. Miscellaneous Fiber Arts – Intermediate

Exhibit requirements the same as for CLASS 3204.

CLASS 3206. Miscellaneous Fiber Arts – Senior

Exhibit requirements the same as for CLASS 3204.

CLASS 3207. Miscellaneous Non-Fiber Arts – Junior (Native American beading, silver smithing, Ukrainian eggs, paper scrolling, wood carvings, etc.)

Exhibit 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 & 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 or 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%) and quality of exhibit (75%).

CLASS 3208. Miscellaneous Non-Fiber Arts – Intermediate

Exhibit requirements the same as for CLASS 3207.

CLASS 3209. Miscellaneous Non-Fiber Arts – Senior
Exhibit requirements the same as for CLASS 3207.

CLASS 3210. Knitting – Junior
Exhibit 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 begin?
 - 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 & 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3211. Knitting – Intermediate
Exhibit requirements the same as for CLASS 3210.

CLASS 3212. Knitting – Senior
Exhibit requirements the same as for CLASS 3210.

CLASS 3213. UNIT 1 – Quilting – Junior
Exhibit 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 & older) three or more 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
 - 2. Pillow sham
 - 3. Two placemats or a table runner
 - 4. Wall hanging
 - 5. Unlined bag
- D. Exhibited items must be quilted – hand, machine or tied.
- E. No separate binding should be used. Items should be finished using a roll-over/self-binding or an envelope turn.
- F. The exhibit should not use advance quilting techniques used in higher units. Examples of advanced skills are: paper or curved piecing, fussy cutting, or appliqué.

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

CLASS 3214. UNIT 1 – Quilting – Intermediate
Exhibit requirements the same as for CLASS 3213.

CLASS 3215. UNIT 1 – Quilting – Senior
Exhibit requirements the same as for CLASS 3213.

CLASS 3216. UNIT 2 – Quilting – Junior
Exhibit 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 & 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 quilt (minimum size 36" x 36" and no maximum). Quilt and record book should demonstrate at least three skills learned (examples include but not limited to layering or stacking, batting, marking, separate straight or bias binding, straight line block patterns, triangle patterns, labeling, and fabric selection).
- D. Exhibit items must be quilted – hand, machine or tied.
- E. Quilt must be finished with a separate straight or bias binding by machine or hand.
- F. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3217. UNIT 2 – Quilting – Intermediate
Exhibit requirements the same as for CLASS 3216.

CLASS 3218. UNIT 2 – Quilting – Senior
Exhibit requirements the same as for CLASS 3216.

CLASS 3219. UNIT 3 – Quilting – Junior
Exhibit 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 & older) three or more references

DEPT. L – HOME DESIGN & DÉCOR

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. One finished quilt (no minimum or maximum size). Quilt should demonstrate at least three advanced skills learned (examples include but not limited to use of templates, circles and curves piecing, Y-seams, appliqué, foundation piecing, mitered corners and advanced edging, embellishments, and challenging fabrics).
 2. A set of up to three coordinated pieces illustrating at least three advanced skills, (examples include but not limited to use of templates, circles and curves piecing, Y-seams, appliqué, foundation piecing, mitered corners and advanced edging, embellishments, and challenging fabrics).
- D. Exhibited items can be hand or machine quilted/stitched, tied or a combination if it fits the design of the quilt.
- E. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 3220. UNIT 3 – Quilting – Intermediate

Exhibit requirements the same as for CLASS 3219.

CLASS 3221. UNIT 3 – Quilting – Senior

Exhibit requirements the same as for CLASS 3219.

CLASS 3222. UNIT 4 – Quilting – Original Design – Junior

Exhibit 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 & older) three or more 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 the original design. Item can have traditional or artistic design. Items could include **one** of the following:
 1. Quilt for bed, wall, table or other display (no minimum or maximum size)
 2. Wearable garment
- D. Exhibit item must be hand or machine quilted/stitched, tied or a combination if it fits the design of the quilt.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 3223. UNIT 4 – Quilting – Original Design – Intermediate

Exhibit requirements the same as for CLASS 3222.

CLASS 3224. UNIT 4 – Quilting – Original Design – Senior

Exhibit requirements the same as for CLASS 3222.

Note: Please read 4-H Project Exhibit Rules on page 1.

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 usable piece (not furniture such as end tables, night stands, sofas, chairs or window and floor coverings).

Examples:

- Wastebasket
- Canister
- Planters
- Foot stools, etc.

CLASS 3301. UNIT 1 – Home Design & Décor – Junior

Exhibit will consist of the following:

- A. Completed Home Design & 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 & 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% 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%) and quality of exhibit (75%).

CLASS 3302. UNIT 1 – Home Design & Décor – Intermediate
Exhibit requirements the same as for CLASS 3301.

CLASS 3303. UNIT 1 – Home Design & Décor – Senior
Exhibit requirements the same as for CLASS 3301.

CLASS 3304. UNIT 2 – Home Design & Décor – Junior
Exhibit will consist of the following:

- A. Completed Home Design & 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 & 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%) and quality of exhibit (75%).

CLASS 3305. UNIT 2 – Home Design & Décor – Intermediate
Exhibit requirements the same as for CLASS 3304.

CLASS 3306. UNIT 2 – Home Design & Décor – Senior
Exhibit requirements the same as for CLASS 3304.

CLASS 3307. UNIT 3 – Home Design & Décor – Junior
Exhibit will consist of the following:

- A. Completed Home Design & Décor e-Record 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 piece(s). 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 bed covering 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%) and quality of exhibit (75%).

CLASS 3308. UNIT 3 – Home Design & Décor – Intermediate
Exhibit requirements the same as for CLASS 3307.

CLASS 3309. UNIT 3 – Home Design & Décor – Senior
Exhibit requirements the same as for CLASS 3307.

CLASS 3310. UNIT 4 – Home Design & Décor – Intermediate
Exhibit will consist of the following:

- A. Completed Home Design & 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%) and quality of exhibit (75%).

CLASS 3311. UNIT 4 – Home Design & Décor – Senior
Exhibit requirements the same as for CLASS 3310.

DEPARTMENT M

ANIMAL SCIENCE

DEPT. M – VETERINARY SCIENCE

Note: Please read 4-H Project Exhibit Rules on page 1.

CLASS 101. UNIT 1 – From Airdales to Zebras – Junior
Exhibit will consist of the following:

- A. *From Airdales to Zebras* project manual and e-Record presented in a sturdy binder/notebook including these items: manual with appropriate sections completed, e-Record and other attachments related to activities in the manual. Do a minimum of seven activities, any combination of activities and booster shots. 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' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 102. UNIT 1 – From Airdales to Zebras – Intermediate
Exhibit requirements the same as for CLASS 101.

CLASS 103. UNIT 1 – From Airdales to Zebras – Senior
Exhibit requirements the same as for CLASS 101.

CLASS 104. UNIT 2 – All Systems Go – Junior
Exhibit will consist of the following:

- A. *All Systems Go* project manual and e-Record presented in a sturdy binder/notebook including these items: manual with appropriate sections completed, e-Record and other attachments related to activities in the manual. Do a minimum of seven activities, any combination of activities and booster shots. 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' x 3' is to be used

for 4-H projects. NO additional items may be included in front of display board.

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

CLASS 105. UNIT 2 – All Systems Go – Intermediate
Exhibit requirements the same as for CLASS 104.

CLASS 106. UNIT 2 – All Systems Go – Senior
Exhibit requirements the same as for CLASS 104.

CLASS 107. UNIT 3 – On the Cutting Edge – Junior
Exhibit will consist of the following:

- A. *On The Cutting Edge* project manual and e-Record presented in a sturdy binder/notebook including these items: manual with appropriate sections completed, e-Record and other attachments related to activities in the manual. Do a minimum of seven activities, any combination of activities and booster shots. 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' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 108. UNIT 3 – On the Cutting Edge – Intermediate
Exhibit requirements the same as for CLASS 107.

CLASS 109. UNIT 3 – On the Cutting Edge – Senior
Exhibit requirements the same as for CLASS 107.

DEPT. M – HORSELESS HORSE

Note: Please read 4-H Project Exhibit Rules on page 1.

CLASS 201. UNIT 1 – Making Horse Sense – Junior
Exhibit 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' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 202. UNIT 1 – Making Horse Sense – Intermediate
Exhibit requirements the same as for CLASS 201.

CLASS 203. UNIT 1 – Making Horse Sense – Senior
Exhibit requirements the same as for CLASS 201.

CLASS 204. UNIT 2 – Hooves, Health & Horsemanship – Junior
Exhibit requirements the same as for CLASS 201.

CLASS 205. UNIT 2 – Hooves, Health & Horsemanship – Intermediate
Exhibit requirements the same as for CLASS 201.

CLASS 206. UNIT 2 – Hooves, Health & Horsemanship – Senior
Exhibit requirements the same as for CLASS 201.

CLASS 207. UNIT 3 – Breaking Ground – Junior
Exhibit requirements the same as for CLASS 201.

CLASS 208. UNIT 3 – Breaking Ground – Intermediate
Exhibit requirements the same as for CLASS 201.

CLASS 209. UNIT 3 – Breaking Ground – Senior
Exhibit requirements the same as for CLASS 201.

CLASS 210. UNIT 4 – Brushing Up On Horses – Junior
Exhibit requirements the same as for CLASS 201.

CLASS 211. UNIT 4 – Brushing Up On Horses – Intermediate
Exhibit requirements the same as for CLASS 201.

CLASS 212. UNIT 4 – Brushing Up On Horses – Senior
Exhibit requirements the same as for CLASS 201.

DEPT. M – CATS

Note: Please read 4-H Project Exhibit Rules on page 1.

CLASS 301. UNIT 1 – Purr-fect Pals – Junior
Exhibit will consist of the following:

- A. A completed Cat Display e-Record presented in a sturdy binder/notebook.
- B. A display board illustrating a topic investigated during the project year. The standardized display board size of 4' x 3' is to be used for 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%) and quality of exhibit (75%).

CLASS 302. UNIT 1 – Purr-fect Pals – Intermediate
Exhibit requirements the same as for CLASS 301.

CLASS 303. UNIT 1 – Purr-fect Pals – Senior
Exhibit requirements the same as for CLASS 301.

CLASS 304. UNIT 2 – Climbing Up – Junior
Exhibit requirements the same as for CLASS 301.

CLASS 305. UNIT 2 – Climbing Up – Intermediate
Exhibit requirements the same as for CLASS 301.

CLASS 306. UNIT 2 – Climbing Up – Senior
Exhibit requirements the same as for CLASS 301.

CLASS 307. UNIT 3 – Leaping Forward – Junior
Exhibit requirements the same as for CLASS 301.

CLASS 308. UNIT 3 – Leaping Forward – Intermediate
Exhibit requirements the same as for CLASS 301.

CLASS 309. UNIT 3 – Leaping Forward – Senior
Exhibit requirements the same as for CLASS 301.

BIOLOGICAL SCIENCE

DEPT. M – GARDENING

Note: Please read 4-H Project Exhibit Rules on page 1.

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

CLASS 401. UNIT 1 – See Them Sprout – Junior
Exhibit 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 in the e-Record: 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.
- B. A display board illustrating a topic investigated during the project year. The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 402. UNIT 1 – See Them Sprout – Intermediate
Exhibit requirements the same as for CLASS 401.

CLASS 403. UNIT 1 – See Them Sprout – Senior
Exhibit requirements the same as for CLASS 401.

CLASS 404. UNIT 2 – Let's Get Growing! – Junior
Exhibit requirements the same as for CLASS 401.

CLASS 405. UNIT 2 – Let's Get Growing – Intermediate
Exhibit requirements the same as for CLASS 401.

CLASS 406. UNIT 2 – Let's Get Growing – Senior
Exhibit requirements the same as for CLASS 401.

CLASS 407. UNIT 3 – Take Your Pick – Junior
Exhibit requirements the same as for CLASS 401.

CLASS 408. UNIT 3 – Take Your Pick – Intermediate
Exhibit requirements the same as for CLASS 401.

CLASS 409. UNIT 3 – Take Your Pick – Senior
Exhibit requirements the same as for CLASS 401.

CLASS 410. UNIT 4 – Growing Profits, Advanced – Senior
Exhibit requirements the same as for CLASS 401.

MECHANICAL SCIENCES

DEPT. M – WELDING (Metalwork)

Note: Please read 4-H Project Exhibit Rules on page 1.

The Colorado 4-H Welding Project is open to any welding process and is not restricted to Shielded Metal Arc Welding (SMAW) as is identified in the recommended curriculum. 4-H members should identify the welding process they use in the record book on page 5 in the table "Items Made in this Unit."

CLASS 501. UNIT 1 – Intro to Metalwork – Junior
Exhibit will consist of the following:

- A. Completed e-Record presented in a sturdy binder/notebook.
- B. Exhibit the following:
 1. One each: Lap, Butt and 90 degree T joints. Requirements:
 - a. Each joint will be made of two pieces, 3" to 4" long of 1" to 2" wide flat strap metal, between 1/8" and 1/2" in thickness.
 - b. On clean steel with no paint, oil or other finishes
 - c. Single pass weld on one side of joint only
 - d. Name, county and class number on bottom of each completed joint
 2. An exhibit up to 3' x 3' x 6', under 150 lbs.
 3. Photos of the stand-alone project construction:
 - a. Four photos of the prep work (cutting, torching, bending, fitting, etc.)
 - b. Four photos of actual welds (individual welds)
 - c. Four photos of finish work (no painting, no oil, no seasoning, front view, side view, top view, best overall view)
- C. For an exhibit larger than 3' x 3' x 6' and over 150 lbs.:

1. Four photos of the prep work (torching, bending, fitting, etc.)
2. Four photos of actual welds (individual welds)
3. Four photos of finish work (no painting, no oil, no seasoning)
4. Four photos must be provided that include top view, side view, front view, and best view (best view is determined by member)

- D. Examples include napkin holder, coat rack, cap/hat hanger
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and the quality of the exhibit (75%).

CLASS 502. UNIT 1 – Intro to Metalwork – Intermediate
Exhibit requirements the same as for CLASS 1100.

CLASS 503. UNIT 1 – Intro to Metalwork – Senior
Exhibit requirements the same as for CLASS 1100.

DEPT. M – COMPUTERS

COMPUTER POWER UNLIMITED SERIES

Note: Please read 4-H Project Exhibit Rules on page 1.

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.

DISCOVERING COMPUTER SCIENCE & PROGRAMMING THROUGH SCRATCH – LEVEL 1

DISPLAY BOARD EXHIBITS

CLASS 601. Computer Science Level 1 – Junior
Exhibit will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual and completed e-Record.
- B. A display board illustrating a topic learned as a part of the 4-H project. The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board. All items must be attached to display boards.
- C. Project will be evaluated on the quality of the information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 602. Computer Science Level 1 – Intermediate
Exhibit requirements the same as for CLASS 601.

CLASS 603. Computer Science Level 1 – Senior
Exhibit requirements the same as for CLASS 601.

BEGINNING PROGRAMMING EXHIBITS

CLASS 604. Beginning Programming – Junior

Exhibit will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual and completed e-Record.
- B. A printed copy of a digital presentation is required to be 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 – 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.

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

CLASS 605. Beginning Programming – Intermediate

Exhibit requirements the same as for CLASS 604.

CLASS 606. Beginning Programming – Senior

Exhibit requirements the same as for CLASS 604.

STAND-ALONE EXHIBITS

CLASS 607. Computer Science Level 1 – Junior

Exhibit will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual and completed e-Record.
- B. 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 risks of display at county fair and state fair if eligible.
- C. Project will be evaluated on the quality of the information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 608. Computer Science Level 1 - Intermediate

Exhibit requirements the same as for CLASS 607.

CLASS 609. Computer Science Level 1 – Senior

Exhibit requirements the same as for CLASS 607.

DISCOVERING COMPUTER SCIENCE & PROGRAMMING THROUGH SCRATCH – LEVEL 2

DISPLAY BOARD EXHIBITS

CLASS 610. Computer Science Level 2 – Intermediate

Exhibit will consist of the following:

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

- B. A display board illustrating a topic learned as a part of the 4-H project. The standardized display board size of 4' x 3' is to be used with 4-H projects. No additional items may be included in front of display board. All items must be attached to display board.
- C. Project will be evaluated on the quality of the information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 611. Computer Science Level 2 – Senior

Exhibit requirements the same as for CLASS 610.

INTERMEDIATE PROGRAMMING EXHIBITS

CLASS 612. Intermediate Programming – Intermediate

Exhibit will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual and completed e-Record.
- B. A printed copy of a digital presentation is required to be 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.

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).

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

CLASS 613. Intermediate Programming – Senior

Exhibit requirements the same as for CLASS 612.

STAND-ALONE EXHIBITS

CLASS 614. Computer Science Level 2 – Intermediate

Exhibit will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual and completed e-Record.
- B. 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 risks of display at county fair and state fair if eligible.
- C. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 615. Computer Science Level 2 – Senior

Exhibit requirements the same as for CLASS 614.

DISCOVERING COMPUTER SCIENCE & PROGRAMMING THROUGH SCRATCH – LEVEL 3

DISPLAY BOARD EXHIBITS

CLASS 616. Computer Science Level 3 – Intermediate

Exhibit will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual and completed e-Record.
- B. A display board illustrating a topic learned as a part of the 4-H project. The standardized display board size of 4' x 3' is to be used with 4-H projects. No additional items may be included in front of display board. All items must be attached to display boards.
- C. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 617. Computer Science Level 3 – Senior

Exhibit requirements the same as for CLASS 616.

ADVANCED PROGRAMMING EXHIBITS**CLASS 618. Advanced Programming – Intermediate**

Exhibit will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual and completed e-Record.
- B. A printed copy of a digital presentation is required to be 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.

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

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

CLASS 619. Advanced Programming – Senior

Exhibit requirements the same as for CLASS 618.

STAND-ALONE PROJECTS**CLASS 620. Computer Science Level 3 – Intermediate**

Exhibit will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual and completed e-Record.
- B. 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 risks of display at county fair and state fair if eligible.
- C. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 621. Computer Science Level 3 – Senior

Exhibit requirements the same as for CLASS 620.

COMPUTERS IN THE 21ST CENTURY**DISPLAY BOARD EXHIBITS****CLASS 622. Computers 21st Century – Intermediate**

Exhibit will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual and completed e-Record.
- B. A display board illustrating a topic learned as a part of the 4-H project. The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board. All items must be attached to display boards.
- C. Project will be evaluated on the quality of the information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 623. Computers 21st Century – Senior

Exhibit requirements the same as for CLASS 622.

STAND-ALONE EXHIBITS**CLASS 624. Computers 21st Century – Intermediate**

Exhibit will consist of the following:

- A. One sturdy binder/notebook that contains the Discovering Computer Science & Programming Through Scratch manual and completed e-Record.
- B. 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 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%) and quality of exhibit (75%).

CLASS 625. Computers 21st Century – Senior

Exhibit requirements the same as for CLASS 622.

DEPT. M – ELECTRIC

Note: Please read 4-H Project Exhibit Rules on page 1.

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

CLASS 701. UNIT 1 – Magic of Electricity – Junior

Exhibit will consist of the following:

- A. Completed 4-H Electric project manual and (at least three required activities completed; at least four Optional activities – Brain Boosters completed; at least two leadership activities completed); and e-Record presented in a sturdy binder/notebook.
- B. One article or display board (not both) that you have made as a part of this unit of study. (Example: homemade flashlight, simple

switch, circuit with two batteries and one light bulb, compass, electromagnet, galvanometer, electric motor, etc.) The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.

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

CLASS 702. UNIT 1 – Magic of Electricity – Intermediate

Exhibit requirements the same as for CLASS 701.

CLASS 703. UNIT 1 – Magic of Electricity – Senior

Exhibit requirements the same as for CLASS 701.

CLASS 704. UNIT 2 – Investigating Electricity – Junior

Exhibit will consist of the following:

- A. Completed 4-H Electric project manual and (at least three required activities completed; at least four Optional activities – Brain Boosters completed; at least two leadership activities completed); and e-Record presented in a sturdy binder/notebook.
- B. One article or display board (not both) that you have made as a part of this unit of study. (Example: circuit diagrams with explanation, series circuit, parallel circuit, momentary switch, three-way switch, soldered connection, rocket launcher, burglar alarm, etc.) The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 705. UNIT 2 – Investigating Electricity – Intermediate

Exhibit requirements the same as for CLASS 704.

CLASS 706. UNIT 2 – Investigating Electricity – Senior

Exhibit requirements the same as for CLASS 704.

CLASS 707. UNIT 3 – Wired for Power – Junior

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 e-Record presented in a sturdy binder/notebook.
- B. One article or display board (not both) which you have made as a part of this unit of study. (Example: electrical tool and supply kit, display of symbols on wires and cables and their meanings, display of light bulbs and the jobs they do best, display board on how to read an appliance name tag, chart showing the electrical usage of appliances, display board on how to replace a switch, etc.) The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 708. UNIT 3 – Wired for Power – Intermediate

Exhibit requirements the same as for CLASS 707.

CLASS 709. UNIT 3 – Wired for Power – Senior

Exhibit requirements the same as for CLASS 707.

CLASS 710. UNIT 4 – Entering Electronics, Advanced – Senior

Exhibit will consist of the following:

- A. Completed 4-H Electric project book and e-Record presented in a sturdy binder/notebook.
- B. One article or display board (not both) which you made as a part of this unit of study. (Example: display of electronic parts, diode, transistor, light emitting diode (LED), LED flasher photocell alarm, light meter, silicon controlled rectifier (SCR) intruder alarm, 6-8 watt amplifier with integrated circuit, etc.) The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

DEPT. M – MODEL ROCKETRY

Note: Please read 4-H Project Exhibit Rules on page 1.

Note to all units:

1. Rocket exhibits must relate to the skill level for the unit entered. Units 1-4 should include the color picture of the rocket and skill level title from the rocket-kit package as part of their record book. All project material must be organized and secured in a sturdy binder/notebook. Unit 6 must have a copy of plans or blueprints including instructions "step by step" to build the rocket.
2. Fins must be balsa wood (balsa, basswood, plywood, etc.) 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 Skill Level 4 and Skill Level 5 rocket kits.
5. Rockets are to be displayed and held vertically by a substantial rod or support no taller than the rocket on a stationary base appropriate to the size of the rocket not to exceed 12" x 12" x 1" thick. Only the rocket will be judged. Do not decorate the base. No triangular stands can be used for displaying the rocket.
6. Do not include live or expended engines in the rocket exhibited.
7. If 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 Rocket Fly Day competition.
9. No launching pads should be used for displaying the rockets.
10. All rockets must be exhibited upright.
11. Launching your rocket is not a requirement. It is a good idea, however, to make 2 rockets – one for exhibit and one to launch if possible.

Note: Please read specific rules for your Unit.

CLASS 801. UNIT 1 – Introduction to Rocketry – Junior – Balsa Fins Only

Exhibit will consist of the following:

- A. Completed Model Rocketry e-Record presented in a sturdy binder/notebook.
- B. On the Model Rocketry page enter the rockets you built in this unit. Include the following information:
 - 1. Model name; skill level: from a stock kit, modified kit or self-designed-and-built.
 - 2. Power: single-stage, multi-stage; cluster.
 - 3. The fuselage: single-tube or glider rear-engine or glider front-engine or glider canard.
 - 4. Engine information: engine code, label color, and type of recovery system.
- C. If the rocket was launched, provide the following information on the Model 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; angle achieved and altitude achieved; any special problems before, during and after launching.
 - 5. What did you do to overcome the problems you encountered?
- D. One rocket personally built or other display related to work done at Skill Level 1.
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 802. UNIT 1 – Introduction to Rocketry – Intermediate – Balsa Fins Only

Exhibit requirements the same as for CLASS 801.

CLASS 803. UNIT 1 – Introduction to Rocketry – Senior – Balsa Fins Only

Exhibit requirements the same as for CLASS 801.

CLASS 804. UNIT 2 – Basic Model Rocketry – Junior – Balsa Fins Only

Exhibit will consist of the following:

- A. Completed Model Rocketry e-Record presented in a sturdy binder/notebook.
- B. On the Model Rocketry page, enter the rockets you built in this unit. Include the following information:
 - 1. Model name; skill level: from a stock kit, modified kit or self-designed-and-built.
 - 2. Power: single-stage, multi-stage; cluster.
 - 3. The fuselage: single-tube or glider rear-engine or glider front-engine or glider canard.
 - 4. Engine information: engine code, label color, and type of recovery system.
- C. If the rocket was launched, provide the following information on the Model 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; angle achieved and altitude achieved; any special problems before, during and after launching.
 - 5. What did you do to overcome the problems you encountered?

- D. One rocket personally built in unit or display related to work done at Skill Level II.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 805. UNIT 2 – Basic Model Rocketry – Intermediate – Balsa Fins Only

Exhibit requirements the same as for CLASS 804.

CLASS 806. UNIT 2 – Basic Model Rocketry – Senior – Balsa Fins Only

Exhibit requirements the same as for CLASS 804.

CLASS 807. UNIT 3 – Intermediate Model Rocketry – Junior – Balsa Fins Only

Exhibit will consist of the following:

- A. Completed Model Rocketry e-Record with completed questions in manual pages 31-35 presented in a sturdy binder/notebook.
- B. On the Model Rocketry page enter the rockets you built in this unit. Include the following information:
 - 1. Model name; skill level: from a stock kit, modified kit or self-designed-and-built.
 - 2. Power: single-stage, multi-stage; cluster.
 - 3. The fuselage: single-tube or glider rear-engine or glider front-engine or glider canard.
 - 4. Engine information: engine code, label color, and type of recovery system.
- C. If the rocket was launched, provide the following information on the Model 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; angle achieved and altitude achieved; any special problems before, during and after launching.
 - 5. What did you do to overcome the problems you encountered?
- D. One rocket personally built in unit or display related to work done at Skill Level III.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 808. UNIT 3 – Intermediate Model Rocketry – Intermediate – Balsa Fins Only

Exhibit requirements the same as for CLASS 807.

CLASS 809. UNIT 3 – Intermediate Model Rocketry – Senior – Balsa Fins Only

Exhibit requirements the same as for CLASS 807.

CLASS 810. UNIT 4 – Advanced Model Rocketry – Junior – Finished Fins of Any Type

Exhibit will consist of the following:

- A. Completed Model Rocketry e-Record with completed questions in manual pages 14-18 presented in a sturdy binder/notebook.
- B. On the Model Rocketry page enter the rockets you built in this unit. Include the following information:
 - 1. Model name; skill level: from a stock kit, modified kit or self-designed-and-built.
 - 2. Power: single-stage, multi-stage; cluster.

DEPT M – ROBOTICS & ENGINEERING

Note: Please read 4-H Project Exhibit Rules on page 1.

1. In Junk Drawer Units 1-3, youth are only allowed to enter a display board exhibit OR a stand-alone exhibit, not both.
2. Robotics Platforms is just a fancy way to say robotics kits or robotics materials. Some types of commercial kits or platform include: Arduio Kits, EV3, Brushbot, Make, Hexy, Pushbutton Programmable Robotic Kit, Sparky, Cubelets, Robotic Arm Edge, Sparkfun Red Bot, WeDo, Multiplo, NXT, TETRIS, 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.

3. The fuselage: single-tube or glider rear-engine or glider front-engine or glider canard.
 4. Engine information: engine code, label color, and type of recovery system.
- C. If the rocket was launched, provide the following information on the Model 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; angle achieved and altitude achieved; any special problems before, during and after launching.
 5. What did you do to overcome the problems you encountered?
- D. One rocket personally built in unit or display related to work done in Skill Level IV.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 811. UNIT 4 – Advanced Model Rocketry – Intermediate – Finished Fins of Any Type

Exhibit requirements the same as for CLASS 810.

CLASS 812. UNIT 4 – Advanced Model Rocketry – Senior – Finished Fins of Any Type

Exhibit requirements the same as for CLASS 810.

CLASS 813. UNIT 6 – Designer Model Rocketry – Junior – Finished Fins of Any Type

Exhibit 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. Must have a copy of the plans or blueprints on how to build the rocket.
- B. If the rocket was launched, provide the following information on the Model 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; angle achieved and altitude achieved; any special problems before, during and after launching.
 5. What did you do to overcome the problems you encountered?
- C. One rocket personally designed, built (no kits) and used in unit or display related to work done.
- D. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 814. UNIT 6 – Designer Model Rocketry – Intermediate – Finished Fins of Any Type

Exhibit requirements the same as for CLASS 813.

CLASS 815. UNIT 6 – Designer Model Rocketry – Senior – Finished Fins of any Type

Exhibit requirements the same as for CLASS 813.

JUNK DRAWER ROBOTICS & ENGINEERING

DISPLAY BOARD EXHIBITS

CLASS 901. UNIT 1 – Give Robotics a Hand – Junior

Exhibit will consist of the following:

- A. A sturdy binder/notebook that contains the completed 4-H Robotics e-Record.
- B. One display board which you have made as a part of this unit of study. The standardized display board size 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%) and quality of exhibit (75%).

CLASS 902. UNIT 1 – Give Robotics a Hand - Intermediate

Exhibit requirements the same as for CLASS 901.

CLASS 903. UNIT 1 – Give Robotics a Hand – Senior

Exhibit requirements the same as for CLASS 901.

STAND-ALONE EXHIBITS

CLASS 904. Unit 1 – Give Robotics a Hand – Junior

Exhibit will consist of the following:

- A. A sturdy binder/notebook that contains the completed 4-H Robotics e-Record.
- B. One article which you have made as a part of this unit of study (Example: marshmallow catapult, robotic arm, robotic gripper, et al.)
- C. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 905. Unit 1 – Give Robotics a Hand - Intermediate
Exhibit requirements the same as for CLASS 904.

CLASS 906. Unit 1 – Give Robotics a Hand – Senior
Exhibit requirements the same as for CLASS 904.

DISPLAY BOARD EXHIBITS

CLASS 907. UNIT 2 – Robots on the Move – Junior
Exhibit will consist of the following:

- A. A sturdy binder/notebook that contains the completed 4-H Robotics e-Record.
- B. One display board which you have made as a part of this unit of study. The standardized display board size 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%) and quality of exhibit (75%).

CLASS 908. UNIT 2 – Robots on the Move - Intermediate
Exhibit requirements the same as for CLASS 907.

CLASS 909. UNIT 2 – Robots on the Move – Senior
Exhibit requirements the same as for CLASS 907.

STAND-ALONE EXHIBITS

CLASS 910. UNIT 2 – Robots on the Move – Junior
Exhibit will consist of the following:

- A. A sturdy binder/notebook that contains the completed 4-H Robotics e-Record.
- B. One article which you have made as a part of this unit of study. (Example: clip mobile, can-can robot, gear train, es-car-go, sea hunt, et al.)
- C. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 911. UNIT 2 – Robots on the Move – Intermediate
Exhibit requirements the same as for CLASS 910.

CLASS 912. UNIT 2 – Robots on the Move – Senior
Exhibit requirements the same as for CLASS 910.

DISPLAY BOARD EXHIBITS

CLASS 913. UNIT 3 – Mechatronics – Junior
Exhibit will consist of the following:

- A. A sturdy binder/notebook that contains the completed 4-H Robotics e-Record.
- B. One display board which you have made as a part of this unit of study. The standardized display board size 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%) and quality of exhibit (75%).

CLASS 914. UNIT 3 – Mechatronics – Intermediate
Exhibit requirements the same as for CLASS 913.

CLASS 915. UNIT 3 – Mechatronics – Senior
Exhibit requirements the same as for CLASS 913.

STAND-ALONE EXHIBITS

CLASS 916. UNIT 3 – Mechatronics – Junior
Exhibit will consist of the following:

- A. A sturdy binder/notebook that contains the completed 4-H Robotics e-Record.
- B. One article which you have made as part of this unit of study. (Example: forward and reverse, wall follower, breadboard, say what? Build your robot, et al.)
- C. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 917. UNIT 3 – Mechatronics – Intermediate
Exhibit requirements the same as for CLASS 916.

CLASS 918. UNIT 3 – Mechatronics – Senior
Exhibit requirements the same as for CLASS 916.

ROBOTICS PLATFORMS

DISPLAY BOARD EXHIBITS

CLASS 919. UNIT 4 – Level 1 – Junior
Exhibit will consist of the following:

- A. A sturdy binder/notebook that contains the completed 4-H Robotics e-Record.
- B. One display board which you have made as a part of this unit of study. The standardized display board size 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%) and quality of exhibit (75%).

CLASS 920. UNIT 4 – Level 1 – Intermediate
Exhibit requirements the same as for CLASS 919.

CLASS 921. UNIT 4 – Level 1 – Senior
Exhibit requirements the same as for CLASS 919.

CLASS 922. UNIT 5 – Level 2 – Junior
Exhibit will consist of the following:

- A. A sturdy binder/notebook that contains the completed 4-H Robotics e-Record.
- B. One display board which you have made as a part of this unit of study. The standardized display board size 4' x 3' is to be used for 4-H projects.
- C. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 923. UNIT 5 – Level 2 – Intermediate
Exhibit requirements the same as for CLASS 922.

CLASS 924. UNIT 5 – Level 2 – Senior
Exhibit requirements the same as for CLASS 922.

CLASS 925. UNIT 6 – Level 3 – Junior

Exhibit 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 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%) and quality of exhibit (75%).

CLASS 926. UNIT 6 – Level 3 – Intermediate

Exhibit requirements the same as for CLASS 925.

CLASS 927. UNIT 6 – Level 3 – Senior

Exhibit requirements the same as for CLASS 925.

TEAM ROBOTICS**CLASS 928. UNIT 7 – Junior**

Exhibit will consist of the following:

- A. A sturdy binder/notebook that contains the completed 4-H Robotics e-Record.
- B. One display board which you have made as a part of this unit of study. The standardized display board size 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%) and quality of exhibit (75%).

CLASS 929. UNIT 7 – Intermediate

Exhibit requirements the same as for CLASS 928.

CLASS 930. UNIT 7 – Senior

Exhibit requirements the same as for CLASS 928.

DEPT. M – SMALL ENGINES

Note: Please read 4-H Project Exhibit Rules on page 1.

CLASS 1001. UNIT 1 – Crank it Up – Junior

Exhibit 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. A display board on any topic from the Small Engines manual. Exhibit may be a display board or a stand-alone item such as: air and fuel systems, the electrical systems, a diagram of the engine block, etc. You may use diagrams, drawings and photographs. Label and use captions to make your display as educational as possible. The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 1002. UNIT 1 – Crank it Up – Intermediate

Exhibit requirements the same as for CLASS 1001.

CLASS 1003. UNIT 1 – Crank it Up – Senior

Exhibit requirements the same as for CLASS 1001.

CLASS 1004. UNIT 2 – Warm it Up – Junior

Exhibit 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. A display board on any topic from the Small Engines manual. Exhibit may be a display board or a stand-alone item such as: air and fuel systems, the electrical systems, a diagram of the engine block, etc. You may use diagrams, drawings and photographs. Label and use captions to make your display as educational as possible. The standardized display board size 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 1005. UNIT 2 – Warm it Up – Intermediate

Exhibit requirements the same as for CLASS 1004.

CLASS 1006. UNIT 2 – Warm it Up – Senior

Exhibit requirements the same as for CLASS 1004.

CLASS 1007. Unit 3 – Tune it Up – Junior

Exhibit 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. A display board on any topic from the Small Engines manual. You may use pictures or any records you kept to provide evidence of your accomplishments and what you have learned. Exhibit may be a display board or a stand-alone item such as: air and fuel systems, the electrical systems, a diagram of the engine block, etc. Label and use captions to make your display as educational as possible. The standardized display board size of 4' x 3' is to be used for 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 manual and e-Record (25%) and quality of exhibit (75%).

CLASS 1008. UNIT 3 – Tune it Up – Intermediate

Exhibit requirements the same as for CLASS 1007.

CLASS 1009. UNIT 3 – Tune it Up – Senior

Exhibit requirements the same as for CLASS 1007.

CLASS 1010. UNIT 4 – Advanced Small Engines – Junior

Note: Unit 4 can be used for any type of engine (tractor, car, etc.)

Exhibit will consist of the following:

- A. A completed Small Engines Unit 4 e-Record with emphasis on your accomplishments in your story presented in a sturdy binder/notebook. (Self-Determined)
- B. Include the following information on the Specific Project Information Page in the e-Record.
 - 1. Written description of your project:
 - a. goals
 - b. plans
 - c. accomplishments
 - d. evaluation
- C. Exhibit may be a display board or a stand-alone item such as: air and fuel systems, the electrical systems, a diagram of the engine block, etc. A display board 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' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- D. Project will be evaluated on the quality of information completed in the e-Record and written description (25%) and quality of exhibit (75%).

CLASS 1011. UNIT 4 – Advanced Small Engines – Intermediate
Exhibit requirements the same as for CLASS 1010.

CLASS 1012. UNIT 4 – Advanced Small Engines – Senior
Exhibit requirements the same as for CLASS 1010.

NATURAL RESOURCES

DEPT. M – ENTOMOLOGY

Note: Please read 4-H Project Exhibit Rules on page 1.
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.

Exhibits in entomology are limited to insect specimens only.

- 1. Older members may start with Unit 2.
- 2. Each year 4-H members build on their collection by adding new insects as required by that unit. Refer to the exhibit requirements for the number of insects to collect for that unit.
- 3. On Units 2-7, records must include data and location where insects were collected. Place this information on labels attached to pins.

Acceptable sizes of hand-made Entomology Display Boxes taken from the manual and kit:

12"W x 16"L x 3"Deep

12"W x 18"L x 3 ½"Deep

18"W x 24"L x 3 ½"Deep

Glass tops on entomology display cases should slide to the top or side of the case to prevent them from slipping and breaking when placed on display.

Commercially available display cases are acceptable.

Regular insect pins are required in all units.

On Units 2 through 7, records must include date and location where insects were collected. Place this information on labels attached to insect pins.

CLASS 1101. UNIT 1 – Let's Learn About Insects – Junior

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Insect Collection – display no fewer than 10 and no more than 35 adult insects in at least 3 different, correctly labeled orders. Boxes for display should be approximately 12"x16"x3". Regular insect pins are required.
- C. Project will be evaluated on the quality of the information completed in the workbook and e-Record (25%) and quality of exhibit (75%).

CLASS 1102. UNIT 1 – Let's Learn About Insects – Intermediate

Exhibit requirements the same as for CLASS 1101.

CLASS 1103. UNIT 1 – Let's Learn About Insects – Senior

Exhibit requirements the same as for CLASS 1101.

CLASS 1104. UNIT 2 – Learn More About Insects – Junior

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Insect collections – display no fewer than 25 and no more than 75 adult insects in at least 6 different orders. Standard-sized display boxes with removable glass covers are required. Regular insect pins are required.
- C. Project will be evaluated on the quality of information completed in the workbook and e-record (25%) and quality of exhibit (75%).

CLASS 1105. UNIT 2 – Learn More About Insects – Intermediate

Exhibit requirements the same as for CLASS 1104.

CLASS 1106. UNIT 2 – Learn More About Insects – Senior

Exhibit requirements the same as for CLASS 1104.

CLASS 1107. UNIT 3 – Insect Habits & Controls – Junior

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Insect collection – display no fewer than 75 and no more than 150 insects including a representative from at least 9 different orders, correctly labeled (one order developed in water). Include a special collection of 8 different insects, as stated in Unit 3 Workbook. Standard-sized display boxes with removable glass covers are required. Regular insect pins are required.
- C. Project will be evaluated on the quality of information completed in the workbook and e-Record (25%) and quality of exhibit (75%).

CLASS 1108. UNIT 3 – Insect Habits & Controls – Intermediate

Exhibit requirements the same as for CLASS 1107.

CLASS 1109. UNIT 3 – Insect Habits & Controls – Senior

Exhibit requirements the same as for CLASS 1107.

CLASS 1110. UNIT 4 – Insect Identification & Community Projects – Junior

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Insect collection – display no fewer than 100 and no more than 250 insects in 10 different, correctly labeled orders. Standard-sized display boxes with removable glass covers are required. Regular insect pins are required.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 1111. UNIT 4 – Insect Identification & Community Projects – Intermediate

Exhibit requirements the same as for CLASS 1110.

CLASS 1112. UNIT 4 – Insect Identification & Community Projects – Senior

Exhibit requirements the same as for CLASS 1110.

CLASS 1113. UNIT 5 – Immature Insects & Life Stages – Junior

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Display your regular insect collection.
- C. Display a collection of at least 10 larvae or immature insects in vials of rubbing alcohol or similar preservation.
- D. Display a special collection that is different from the one in Unit 3, including at least 10 insects.
- E. Project will be evaluated on the quality of information completed in the workbook and e-Record (25%) and quality of exhibit (75%).

CLASS 1114. UNIT 5 – Immature Insects & Life Stages – Intermediate

Exhibit requirements the same as for CLASS 1113.

CLASS 1115. UNIT 5 – Immature Insects & Life Stages – Senior

Exhibit requirements the same as for CLASS 1113.

CLASS 1116. UNIT 6 – Exploring with Insects – Junior

Exhibit will consist of the following:

- A. Completed e-Record and Entomology workbook presented in a sturdy binder/notebook.
- B. Report on at least three special activities and include them in the e-Record before the story.
- C. Insect collection – display no fewer than 50 insects from a single insect order with no more than 3 specimens of the same insect. Standard-sized display boxes with removable glass covers are required. Regular insect pins are required.
- D. Project will be evaluated on the quality of information completed in the workbook and e-Record (25%) and quality of exhibit (75%).

CLASS 1117. UNIT 6 – Exploring with Insects – Intermediate

Exhibit requirements the same as for CLASS 1116.

CLASS 1118. UNIT 6 – Exploring with Insects – Senior

Exhibit requirements the same as for CLASS 1116.

CLASS 1119. UNIT 7 – Exploring with Insects, Advanced – Junior

Exhibit will consist of the following:

- A. Completed e-Record with emphasis on your accomplishments in your story, presented in a sturdy binder/notebook.
- B. A display board representing some phase of special project work. This could include a chart or special equipment used or developed. The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included on or in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 1120. UNIT 7 – Exploring with Insects, Advanced – Intermediate

Exhibit requirements the same as for CLASS 1119.

CLASS 1121. UNIT 7 – Exploring with Insects, Advanced – Senior

Exhibit requirements the same as for CLASS 1119.

DEPT. M – OUTDOOR ADVENTURES

Note: Please read 4-H Project Exhibit Rules on page 1.

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

CLASS 1201. UNIT 1 – Hiking Trails – Junior

Exhibit will consist of the following:

- A. A completed manual (at least 6 chapter activities and at least 6 Reach the Pike activities completed each year) and e-Record presented in a sturdy binder/notebook including these items: appropriate sections in the manual completed, 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' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- C. Project will be evaluated on the quality of information completed in the manual and e-Record (25%) and quality of exhibit (75%).

CLASS 1202. UNIT 1 – Hiking Trails – Intermediate

Exhibit requirements the same as for CLASS 1201.

CLASS 1203. UNIT 1 – Hiking Trails – Senior

Exhibit requirements the same as for CLASS 1201.

CLASS 1204. UNIT 2 – Camping Adventures – Junior

Exhibit requirements the same as for CLASS 1201.

CLASS 1205. UNIT 2 – Camping Adventures – Intermediate

Exhibit requirements the same as for CLASS 1201.

CLASS 1206. UNIT 2 – Camping Adventures – Senior

Exhibit requirements the same as for CLASS 1201.

CLASS 1207. UNIT 3 – Backpacking Expeditions – Junior

Exhibit requirements the same as for CLASS 1201.

CLASS 1208. UNIT 3 – Backpacking Expeditions – Intermediate

Exhibit requirements the same as for CLASS 1201.

CLASS 1209. UNIT 3 – Backpacking Expeditions – Senior

Exhibit requirements the same as for CLASS 1201.

DEPT. M – SPORTFISHING

Note: Please read 4-H Project Exhibit rules on page 1.

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' x 3' is to be used for 4-H projects. No additional items may be included on or in front of 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' in width and depth and 7' in height. The item must be stable when standing in order 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.

Members may have entries in both the display board classes and the stand-alone classes. (See above.)

CLASS 1401. UNIT 1 – Take the Bait – Junior

Exhibit will consist of the following:

- A. Completed Sportfishing e-Record presented in a sturdy binder/notebook.
- B. Include the following information on the Specific Project Information Page in the Sportfishing e-Record:
 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 catch 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 Form 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 stand-alone items such as hand-wrapped rods or handmade 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 shall not extend beyond the edges of display boards. The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board. No wooden display cases. Hooks must be removed from lures and jigs when these items are used in an exhibit. The exceptions are artificial flies, which may be exhibited with functional hooks, but the hook points must be imbedded in material (i.e. rubber, dense cork, etc.) that will secure the flies and offer safety to the judges and other show officials. Be sure to remove barbs and any other sharp points.

D. No knives to be displayed.

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

CLASS 1402. UNIT 1 – Take the Bait – Intermediate

Exhibit requirements the same as for CLASS 1401.

CLASS 1403. UNIT 1 – Take the Bait – Senior

Exhibit requirements the same as for CLASS 1401.

CLASS 1404. UNIT 2 – Reel in the Fun – Junior

Exhibit requirements the same as for CLASS 1401.

CLASS 1405. UNIT 2 – Reel in the Fun – Intermediate

Exhibit requirements the same as for CLASS 1401.

CLASS 1406. UNIT 2 – Reel in the Fun – Senior

Exhibit requirements the same as for CLASS 1401.

CLASS 1407. UNIT 3 – Cast into the Future – Junior

Exhibit requirements the same as for CLASS 1401.

CLASS 1408. UNIT 3 – Cast into the Future – Intermediate

Exhibit requirements the same as for CLASS 1401.

CLASS 1409. UNIT 3 – Cast into the Future – Senior

Exhibit requirements the same as for CLASS 1401.

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.

CLASS 1410. UNIT 1 – Stand Alone – Junior
Exhibit requirements the same as for CLASS 1401.

CLASS 1411. UNIT 1 – Stand Alone – Intermediate
Exhibit requirements the same as for CLASS 1401.

CLASS 1412. UNIT 1 – Stand Alone – Senior
Exhibit requirements the same as for CLASS 1401.

CLASS 1413. UNIT 2 – Stand Alone – Junior
Exhibit requirements the same as for CLASS 1401.

CLASS 1414. UNIT 2 – Stand Alone – Intermediate
Exhibit requirements the same as for CLASS 1401.

CLASS 1415. UNIT 2 – Stand Alone – Senior
Exhibit requirements the same as for CLASS 1401.

CLASS 1416. UNIT 3 – Stand Alone – Junior
Exhibit requirements the same as for CLASS 1401.

CLASS 1417. UNIT 3 – Stand Alone – Intermediate
Exhibit requirements the same as for CLASS 1401.

CLASS 1418. UNIT 3 – Stand Alone – Senior
Exhibit requirements the same as for CLASS 1401.

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

CLASS 1502. UNIT 1 – The Worth of Wild Roots – Intermediate
Exhibit requirements the same as for CLASS 1501.

CLASS 1503. UNIT 1 – The Worth of Wild Roots – Senior
Exhibit requirements the same as for CLASS 1501.

CLASS 1504. UNIT 2 – Living Wild in an Ecosystem – Junior
Exhibit requirements the same as for CLASS 1501.

CLASS 1505. UNIT 2 – Living Wild in an Ecosystem – Intermediate
Exhibit requirements the same as for CLASS 1501.

CLASS 1506. UNIT 2 – Living Wild in an Ecosystem – Senior
Exhibit requirements the same as for CLASS 1501.

CLASS 1507. UNIT 3 – Managing in a World with You & Me – Junior
Exhibit requirements the same as for CLASS 1501.

CLASS 1508. UNIT 3 – Managing in a World with You & Me – Intermediate
Exhibit requirements the same as for CLASS 1501.

CLASS 1509. UNIT 3 – Managing in a World with You & Me – Senior
Exhibit requirements the same as for CLASS 1501.

DEPT. M – WILDLIFE

Note: Please read 4-H Project Exhibit Rules on page 1.

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.

CLASS 1501. UNIT 1 – The Worth of Wild Roots – Junior
Exhibit will consist of the following:

- Completed Wildlife e-Record presented in a sturdy binder/notebook.
- Include the following information on the Wildlife page: Show what you did and learned. Show evidence of your personal field experiences, study or observations.
- A display board showing educational information about a topic of interest related to wildlife. Follow the standardized display board size of 4' x 3'. No additional items may be included in front of display board. Possible topics could include but not restricted to: species found in Colorado, wildlife habitats, role of predators, types of bird feed, or urban wildlife challenges.
- 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.

CLASS 1510. Stand-Alone Item (All Units) – Junior
Exhibit requirements the same as for CLASS 1501.

CLASS 1511. Stand-Alone Item (All Units) – Intermediate
Exhibit requirements the same as for CLASS 1501.

CLASS 1512. Stand-Alone Item (All Units) – Senior
Exhibit requirements the same as for CLASS 1501.

DEPT. M – BEEKEEPING

Note: Please read 4-H Project Exhibit Rules on page 1.

CLASS 1601. UNIT 1 – Beekeeping – Junior
Exhibit will consist of the following:

- Completed Beekeeping Unit 1 e-Record presented in a sturdy binder/notebook.
- 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' x 3' 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%) and quality of exhibit (75%).

CLASS 1602. UNIT 1 – Beekeeping – Intermediate

Exhibit requirements the same as for CLASS 1601.

CLASS 1603. UNIT 1 – Beekeeping – Senior

Exhibit requirements the same as for CLASS 1601.

CLASS 1604. UNIT 2 – Beekeeping – Junior

Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- B. Exhibit one of the following:
Working with Honey Bees (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' x 3' 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%) and quality of exhibit (75%).

CLASS 1605. UNIT 2 – Beekeeping – Intermediate

Exhibit requirements the same as for CLASS 1604.

CLASS 1606. UNIT 2 – Beekeeping – Senior

Exhibit requirements the same as for CLASS 1604.

UNIT 2 – STAND ALONE EXHIBITS

CLASS 1607. UNIT 2 – Extracted Honey – Junior

Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- 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%) and quality of exhibit (75%).

CLASS 1608. UNIT 2 – Extracted Honey – Intermediate

Exhibit requirements the same as for CLASS 1607.

CLASS 1609. UNIT 2 – Extracted Honey – Senior

Exhibit requirements the same as for CLASS 1607.

CLASS 1610. UNIT 2 – Chunk Honey – Junior

Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- 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%) and quality of exhibit (75%).

CLASS 1611. UNIT 2 – Chunk Honey – Intermediate

Exhibit requirements the same as for CLASS 1610.

CLASS 1612. UNIT 2 – Chunk Honey – Senior

Exhibit requirements the same as for CLASS 1610.

CLASS 1613. UNIT 2 – Cut Comb Honey – Junior

Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- B. Exhibit – Cut Comb Honey (2 one-pound boxes, usually 4½" x 4½" in size). 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%) and quality of exhibit (75%).

CLASS 1614. UNIT 2 – Cut Comb Honey – Intermediate

Exhibit requirements the same as for CLASS 1613.

CLASS 1615. UNIT 2 – Cut Comb Honey – Senior

Exhibit requirements the same as for CLASS 1613.

CLASS 1616. UNIT 2 – Wooden Ware – Junior

Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- B. Exhibit – wooden ware – examples: tool box, 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%) and quality of exhibit (75%).

CLASS 1617. UNIT 2 – Wooden Ware – Intermediate

Exhibit requirements the same as for CLASS 1616.

CLASS 1618. UNIT 2 – Wooden Ware – Senior

Exhibit requirements the same as for CLASS 1616.

CLASS 1619. UNIT 3 – Beekeeping – Junior

Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- B. Exhibit: Prepare an educational 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' x 3' 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%) and quality of exhibit (75%).

CLASS 1620. UNIT 3 – Beekeeping – Intermediate
Exhibit requirements the same as for CLASS 1619.

CLASS 1621. UNIT 3 – Beekeeping – Senior
Exhibit requirements the same as for CLASS 1619.

UNIT 3 – STAND ALONE EXHIBITS

CLASS 1622. UNIT 3 – Extracted Honey - Junior
Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- B. Exhibit – Extracted Honey – 2 one-pound jars (glass or clear plastic) shown as described in Beekeeping II. 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%) and quality of exhibit (75%).

CLASS 1623. UNIT 3 – Extracted Honey – Intermediate
Exhibit requirements the same as for CLASS 1622.

CLASS 1624. UNIT 3 – Extracted Honey – Senior
Exhibit requirements the same as for CLASS 1622.

CLASS 1625. UNIT 3 – Chunk Honey – Junior
Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- B. Exhibit – Chunk Honey (comb in jar) – 2 one-pound jars (wide-mouth, glass or clear plastic) shown as described in Beekeeping II. 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%) and quality of exhibit (75%).

CLASS 1626. UNIT 3 – Chunk Honey – Intermediate
Exhibit requirements the same as for CLASS 1625.

CLASS 1627. UNIT 3 – Chunk Honey – Senior
Exhibit requirements the same as for CLASS 1625.

CLASS 1628. UNIT 3 – Cut-Comb Honey – Junior
Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- B. Exhibit – Cut-Comb Honey – 2 one-pound boxes. Boxes are usually 4½" x 4½" (shown as described in Beekeeping II). 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%) and quality of exhibit (75%).

CLASS 1629. UNIT 3 – Cut-Comb Honey – Intermediate
Exhibit requirements the same as for CLASS 1628.

CLASS 1630. UNIT 3 – Cut-Comb Honey – Senior
Exhibit requirements the same as for CLASS 1628.

CLASS 1631. UNIT 3 – Comb Honey – Junior
Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- B. Exhibit – Comb Honey – 2 sections (honey built by bees in frames of wood commonly called "sections.") Boxes are usually 4½" x 4½" in size (shown as described in Beekeeping II). 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%) and quality of exhibit (75%).

CLASS 1632. UNIT 3 – Comb Honey – Intermediate
Exhibit requirements the same as for CLASS 1631.

CLASS 1633. UNIT 3 – Comb Honey – Senior
Exhibit requirements the same as for CLASS 1631.

CLASS 1634. UNIT 3 – Wooden Ware – Junior
Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 e-Record presented in a sturdy binder/notebook.
- B. Exhibit – wooden ware – examples; tool box, hive components, etc. Item must be labeled with name, county, class, description of item.
- C. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 1635. UNIT 3 – Wooden Ware – Intermediate
Exhibit requirements the same as for CLASS 1634.

CLASS 1636. UNIT 3 – Wooden Ware – Senior
Exhibit requirements the same as for CLASS 1634.

ADVANCED BEEKEEPING

(Must have at least 2 years of beekeeping project experience and must have own hives.)

CLASS 1637. UNIT 4 – Advanced Beekeeping – Intermediate
Exhibit will consist of the following:

- A. Completed Beekeeping Units 2-4 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% 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' x 1' 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%) and quality of exhibit (75%).

CLASS 1638. UNIT 4 – Advanced Beekeeping – Senior
Exhibit requirements the same as for CLASS 1637.

COMMUNICATION, ARTS, & LEISURE SCIENCES

DEPT. M – CERAMICS

Note: Please read 4-H Project Exhibit Rules on page 1.

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 flower pot; 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. For examples of technique sheets, go to www.colorado4h.org under Project Resources/Record Books.
7. Bisque option is for items that are already cleaned and fired and can be exhibited in Units 1, 2 and 4.

CLASS 1701. UNIT 1 – Glazes – Junior
Includes glazes on earthenware, stoneware and porcelain.
Exhibit will consist of the following:

- A. Completed Ceramics e-Record presented in a sturdy binder/notebook.
- B. Complete two learning projects with information listed on the Ceramic page.
- C. Include at least three technique sheets for the three new skills learned. 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 name, number 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 1702. UNIT 1 – Glazes – Intermediate
Exhibit requirements the same as for CLASS 1701.

CLASS 1703. UNIT 1 – Glazes – Senior
Exhibit requirements the same as for CLASS 1701.

CLASS 1704. UNIT 1 – Bisque Option – Junior
Exhibit requirements the same as for CLASS 1701.

CLASS 1705. UNIT 1 – Bisque Option – Intermediate
Exhibit requirements the same as for CLASS 1701.

CLASS 1706. UNIT 1 – Bisque Option – Senior
Exhibit requirements the same as for CLASS 1701.

CLASS 1707. UNIT 2 – Underglazes – Junior
Includes underglazes on earthenware, stoneware and porcelain.
Exhibit will consist of the following:

- A. Completed Ceramics e-Record presented in a sturdy binder/notebook.
- B. Complete two 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 name, number 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 of set showing techniques learned.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 1708. UNIT 2 – Underglazes – Intermediate
Exhibit requirements the same as for CLASS 1707.

CLASS 1709. UNIT 2 – Underglazes – Senior
Exhibit requirements the same as for CLASS 1707.

CLASS 1710. UNIT 2 – Bisque Option – Junior
Exhibit requirements the same as for CLASS 1707.

CLASS 1711. UNIT 2 – Bisque Option – Intermediate
Exhibit requirements the same as for CLASS 1707.

CLASS 1712. UNIT 2 – Bisque Option – Senior
Exhibit requirements the same as for CLASS 1707.

CLASS 1713. UNIT 3 – Overglazes – Junior
Includes overglazes on earthenware, stoneware and porcelain.

Exhibit will consist of the following:

- A. Completed Ceramics e-Record presented in a sturdy binder/notebook.
- B. Complete two 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 name, number 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 of set showing techniques learned.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 1714. UNIT 3 – Overglazes – Intermediate

Exhibit requirements the same as for CLASS 1713.

CLASS 1715. UNIT 3 – Overglazes – Senior

Exhibit requirements the same as for CLASS 1713.

CLASS 1716. UNIT 4 – Unfired Finishes – Junior
Includes unfired finishes on earthenware, stoneware, and porcelain.

Exhibit will consist of the following:

- A. Completed Ceramics e-Record presented in a sturdy binder/notebook.
- B. Complete two 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 name, number 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 use.
- D. One piece or set showing techniques learned.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 1717. UNIT 4 – Unfired Finishes – Intermediate

Exhibit requirements the same as for CLASS 1716.

CLASS 1718. UNIT 4 – Unfired Finishes – Senior

Exhibit requirements the same as for CLASS 1716.

CLASS 1719. UNIT 4 – Bisque Option – Junior

Exhibit requirements the same as for CLASS 1716.

CLASS 1720. UNIT 4 – Bisque Option – Intermediate

Exhibit requirements the same as for CLASS 1716.

CLASS 1721. UNIT 4 – Bisque Option – Senior

Exhibit requirements the same as for CLASS 1716.

CLASS 1722. UNIT 5 – Porcelain Dolls – Junior

Includes china paint on polished bisque or glazed porcelain (china). Soft-fired greenware is highly recommended for all doll projects.

Exhibit 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 name, number 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 1723. UNIT 5 – Porcelain Dolls – Intermediate

Exhibit requirements the same as for CLASS 1722.

CLASS 1724. UNIT 5 – Porcelain Dolls – Senior

Exhibit requirements the same as for CLASS 1722.

CLASS 1725. Unit 6 – Hand-Constructed in Stoneware – Junior

Exhibit 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 name, number 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 used.
- D. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 1726. UNIT 6 – Hand-Constructed in Stoneware – Intermediate

Exhibit requirements the same as for CLASS 1725.

CLASS 1727. UNIT 6 – Hand-Constructed in Stoneware – Senior

Exhibit requirements the same as for CLASS 1725.

DEPT. M – GLOBAL CITIZENSHIP

**Note: Please read 4-H Project Exhibit Rules on page 1.
No display boards.**

CLASS 1801. UNIT 1 – Study of Another Country – Junior

Exhibit will consist of the following:

- A. A sturdy three-ring notebook including a completed e-Record with the following additional information:
 1. Create an information sheet that explains the selected study option and list the topic(s) studied (pages 6-9 in manual).
 2. Describe any demonstrations or public speaking experiences you had associated with global citizenship. Please be specific about audience, topic, visual aids, etc.
 3. Include a short story explaining what you learned from this study.
 4. List the resources you used throughout your project.
- B. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of the contents of the notebook (75%).

CLASS 1802. UNIT 1 – Study of Another Country – Intermediate

Exhibit requirements the same as for CLASS 1801.

CLASS 1803. UNIT 1 – Study of Another Country – Senior

Exhibit requirements the same as for CLASS 1801.

CLASS 1804. UNIT 2 – Host a Delegate from Another Country – Junior

Exhibit will consist of the following:

- A. A sturdy three-ring notebook including a completed e-Record with the following additional information:
 1. Preparation for your Exchangee's Arrival – page 3 of manual.
 2. The Arrival page – pages 3-4 of manual
 3. During the Stay – page 4 of manual
 4. After Departure – page 4 of manual
 5. Resources – page 5 of manual
- B. Provide information on at least one demonstration or public speaking that you gave on your global citizenship project. Please

record this information on the demonstration page in the e-Record. Be specific on audience, topic, visual aids, etc.

- C. Project will be evaluated on the quality of information in the e-Record (25%) and quality of the contents of the notebook (75%).

CLASS 1805. UNIT 2 – Host a Delegate from Another Country – Intermediate

Exhibit requirements the same as for CLASS 1804.

CLASS 1806. UNIT 2 – Host a Delegate from Another Country – Senior

Exhibit requirements the same as for CLASS 1804.

YOUTH COUNSELOR FOR INBOUND INTERNATIONAL DELEGATION

CLASS 1807. UNIT 3 – Youth Counselor – Intermediate

Exhibit will consist of the following:

- A. Serve as a teen counselor at a standard international-program event for incoming delegates from another country or culture (this must be coordinated with the 4-H International Programs Coordinator in the Colorado 4-H Office).
- B. A sturdy three-ring 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 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 information completed in the e-Record (25%) and quality of the contents of the notebook (75%).

CLASS 1808. UNIT 3 – Youth Counselor – Senior

Exhibit requirements the same as for CLASS 1807.

CLASS 1809. UNIT 4 – Exchange Delegate to Another Country – Intermediate

Exhibit will consist of the following:

- A. A sturdy three-ring 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 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 information completed in the e-Record (25%) and quality of the contents of the notebook (75%).

CLASS 1810. Unit 4 – Exchange Delegate to Another Country – Senior

Exhibit requirements the same as for CLASS 1809.

DEPT. M – LEADERSHIP

Note: Please read 4-H Project Exhibit Rules on page 1.

CLASS 1901. UNIT 1 – Individual Skills You Never Outgrow – Junior

Exhibit will consist of the following:

- A. A sturdy three-ring notebook including a completed e-Record with the following information:
 - 1. 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:
 - a. Understanding self
 - b. Communications
 - c. Getting Along with Others
 - d. Making decisions
 - e. Plus, one of the exhibitor's choice 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' x 3' 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%) and quality of the exhibit (50%).

CLASS 1902. UNIT 1 – Individual Skills You Never Outgrow – Intermediate

Exhibit requirements the same as for CLASS 1901.

CLASS 1903. UNIT 2 – Leadership Road Trip – Intermediate

Exhibit will consist of the following:

- A. A sturdy three-ring notebook including a completed e-Record with the following information:
 - 1. Complete all 12 activities in the Leadership Road Trip manual, 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' x 3' 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 must provide a link to view the video.

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

CLASS 1904. UNIT 2 – Leadership Road Trip – Senior

Exhibit requirements the same as for CLASS 1903.

CLASS 1905. UNIT 3 – Put Leadership to Practice – Intermediate

Exhibit 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, either include the manual or make copies of the pages and place them 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' x 3' 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 must provide a link to view the video.

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

CLASS 1906. UNIT 3 – Put Leadership to Practice – Senior

Exhibit requirements the same as for CLASS 1905.

CLASS 1907. UNIT 4 – Refining Leadership Skills – Senior

Exhibit 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 I manual, 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 2 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' x 3' 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 must provide a link to view the video.

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

CLASS 1908. UNIT 5 – Community Service Project – Senior

Exhibit will consist of the following:

- 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, either include the manual or make copies of the pages and place in the e-Record.
- B. A display board summarizing completed community service project. The standardized display board size of 4' x 3' 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 must provide a link to view the video.

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

DEPT. M – LEATHERCRAFT

Note: Please read 4-H Project Exhibit Rules on page 1.

1. Put name, age, and county on back of exhibit board or on tag attached to individual exhibit articles.
2. Indicate in e-Record whether articles are made from kit or are self-cut and designed by the member.
3. A set means a number of things of the same kind that belong, or are used together, (i.e. six matching coasters, belt and buckle with matching designs, etc.).
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 exhibiting in.
5. **Unit 8 is now an advanced creative stamping. It is recommended that first year Juniors take Unit 1 intro to Stamping before taking Unit 8.**
6. Definitions:
Carving – is where you cut into the leather (usually swivel knife) as part of the design you are tooling.
Stamping/Tooling – is where you use impressions made from tools to form a design.
Cord – is round and waxed thread.
Lace – is flat with a shiny side and rough side.
Background dyeing – dyeing a solid color to the area tooled with the background.
Solid color dyeing – is where you dye the whole project the same color. For example, you tool a belt and then dye it all black, or you make a book cover and dye it all one color.
Color shading – is where you use shades of color to make the design look more realistic. For example, you can use darker and lighter shades of a color on a flower you have tooled to make it look realistic, or an animal or figure of any kind.
Staining/Antiquing – using an antique finish like saddle tan – apply & remove/rub on & 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.

CLASS 2001. UNIT 1 – Intro to Leathercraft & Stamping – Junior
Exhibit 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" x 18" x 1/8" or 1/4" (preferably pegboard) to which items are attached by means of lacing or thread. One each from categories below:
 1. One article or one set of articles on flat leather with no lacing or stitching, examples – bookmark, wrist bracelet, set of coasters.
 2. One article with at least two pieces of leather that are sewed together with lace using a whip stitch or running stitch. Pre-

cut kits or self-cut leather may be used. Examples: key case or knife sheath.

3. One article with at least two pieces of leather that are sewed together with cord stitching. Use pre-cut kits with pre-punched holes – example: coin purse.

- C. Apply a clear finish to complete your article

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

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

CLASS 2002. UNIT 1 – Intro to Leathercraft & Stamping – Intermediate

Exhibit requirements the same as for CLASS 2001.

CLASS 2003. UNIT 1 – Intro to Leathercraft & Stamping – Senior
Exhibit requirements the same as for CLASS 2001.

CLASS 2004. UNIT 2 – Beginning Leather Carving – Junior

Exhibit will consist of the following:

- A. Completed e-Record presented in a sturdy binder/notebook.
- B. Exhibit board 12" x 18" x 1/8" or 1/4" (preferably pegboard) to which items are attached by means of lacing or thread:
 1. Three samples with labels showing:
 - a. Use of swivel knife and camouflage tool.
 - b. Steps shown in *sample a.* 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. & b.*)
 2. Two completed articles using tools and skills studied in Units 1 & 2, which include lacing (at least one with double loop lacing).
- C. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

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

CLASS 2005. UNIT 2 – Beginning Leather Carving – Intermediate
Exhibit requirements the same as for CLASS 2004.

CLASS 2006. Unit 2 – Beginning Leather Carving – Senior
Exhibit requirements the same as for CLASS 2004.

CLASS 2007. UNIT 3 – Intermediate Leather Carving – Junior
Exhibit 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, beginning dyeing, simple molding and shaping or hand stitching. Only clear finish and if laced, the double loop stitch is required.
- C. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

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

CLASS 2008. UNIT 3 – Intermediate Leather Carving – Intermediate

Exhibit requirements the same as for CLASS 2007.

CLASS 2009. UNIT 3 – Intermediate Leather Carving – Senior
Exhibit requirements the same as for CLASS 2007.

CLASS 2010. UNIT 4 – Advanced Leather Carving – Junior
Exhibit 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. Beginning dyeing and staining according to Unit 3 are acceptable, but color shading and solid-color dyeing will not be permitted on this article.
- C. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

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

CLASS 2011. UNIT 4 – Advanced Leather Carving – Intermediate
Exhibit requirements the same as for CLASS 2010.

CLASS 2012. UNIT 4 – Advanced Leather Carving – Senior
Exhibit requirements the same as for CLASS 2010.

CLASS 2013. UNIT 5 – Coloring and Shading – Junior
Exhibit 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 or shade dyeing. The design can be either conventional or realistic carving.
- C. Project will be evaluated on the quality of information completed in the e-Record (25%).

CLASS 2014. UNIT 5 – Coloring and Shading – Intermediate
Exhibit requirements the same as for CLASS 2013.

CLASS 2015. UNIT 5 – Coloring and Shading – Senior
Exhibit requirements the same as for CLASS 2013.

CLASS 2016. UNIT 6 – Pictorial Carving – Junior

Exhibit will consist of the following:

- A. Completed e-Record presented in a sturdy binder/notebook.
- B. One framed or mounted carved leather picture (scene or portrait – not clocks) 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 information completed in the e-Record (25%) and quality of exhibit (75%).

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

CLASS 2017. UNIT 6 – Pictorial Carving – Intermediate
Exhibit requirements the same as for CLASS 2016.

CLASS 2018. UNIT 6 – Pictorial Carving – Senior
Exhibit requirements the same as for CLASS 2016.

CLASS 2019. UNIT 7 – Making and Rebuilding Saddles – Junior
Exhibit 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 information completed in the e-Record (25%) and quality of exhibit (75%).

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

CLASS 2020. UNIT 7 – Making and Rebuilding Saddles – Intermediate
Exhibit requirements the same as for CLASS 2019.

CLASS 2021. UNIT 7 – Making and Rebuilding Saddles – Senior
Exhibit requirements the same as for CLASS 2019.

CLASS 2022. UNIT 8 – Advanced Creative Stamping – Junior
Exhibit 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 information completed in the e-Record (25%) and quality of exhibit (75%).

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

CLASS 2023. UNIT 8 – Advanced Creative Stamping – Intermediate
Exhibit requirements the same as for CLASS 2022.

CLASS 2024. UNIT 8 – Advanced Creative Stamping – Senior
Exhibit requirements the same as for CLASS 2022.

CLASS 2025. UNIT 9 – Braiding and Untooled – Junior
Exhibit 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 information completed in the e-Record (25%) and quality of exhibit (75%).

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

CLASS 2026. UNIT 9 – Braiding and Untooled – Intermediate
Exhibit requirements the same as for CLASS 2025.

CLASS 2027. UNIT 9 – Braiding and Untooled – Senior
Exhibit requirements the same as for CLASS 2025.

CLASS 2028. UNIT 10 – Sewing Leather – Junior

Exhibit 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 information completed in the e-Record (25%) and quality of exhibit (75%).

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

CLASS 2029. UNIT 10 – Sewing Leather – Intermediate

Exhibit requirements the same as for CLASS 2028.

CLASS 2030. UNIT 10 – Sewing Leather – Senior

Exhibit requirements the same as for CLASS 2028.

DEPT. M – PHOTOGRAPHY

Note: Please read 4-H Project Exhibit Rules on page 1.

1. For all units, submit photo material for the current unit being entered. Do not submit previous photos or records.
2. In Levels 1-3 pictures can either be mounted on the journal pages or on card stock. Use the tips on page 73 of the manuals for mounting the pictures.
3. Display photo may be up to 5" x 7" in size. The photo must be mounted on a mat and suitable for hanging without additional frame. No other mounted materials (i.e., glass, wood, plastic, metal, etc.) can be used.
4. All photos in the notebook or manual should be 4" x 6" unless otherwise indicated in the manual. If the photos do not fit on the page, add a page for the photo.
5. **Display photo will be used to display at state fair so be careful when picking your best photo. Notebooks will not be displayed.**
6. Photo Journal Binder/notebook: Use a hardback, three-ring notebook up to 3" in size for all units. No posters or oversized books. Do not use plastic covers on any pages in 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.**
7. For photo exhibits in Levels 1-3 follow the tips in the manuals. Photos can be mounted on cardstock. 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 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 at state fair. 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

CLASS 2101. UNIT 1 – Photography Basics – First Year – Junior

Exhibit will consist of the following:

- A. Completed e-Record. Include the following in your story: what camera you used this year (Brand name, film size, etc.), how you stored your pictures and why you picked your Display Photo. **(Also include photos of you working on your project in the e-Record photo page.)**
- B. Completed Photo Journal/Binder. 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 – 5" x 7" matted and ready to hang (no glass or frame).
- D. You will include the following photos (total of 27 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.
 1. Activity #1 – 2 photos:
 - a. 1 zoomed in and 1 zoomed out
 2. Activity #2 – 4 photos:
 - a. 2 landscape view – 1 photo not using a tripod and 1 photo using a tripod
 - b. 2 portrait view – 1 photo using a tripod and 1 photo not using tripod
 3. Activity #3 – 6 photos:
 - a. 3 photos taken outdoors – 1 at noon, 1 at 4 p.m., and 1 at 8 p.m.
 - b. 3 photos taken indoors – 1 at 10 a.m., 1 at noon, and 1 at 2 p.m.

Note: The goal of this activity should be learning how to use light effectively to capture the subject using correct composition.

4. Activity #4 – 3 photos:
 - a. 1 photo with an outdoor shadow
 - b. 1 human shadow pose
 - c. 1 large shadow of choice

5. Activity #5 – 4 photos:
 - a. 4 photos using the same object of choice, captured with different directions of light; 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2102. UNIT 1 – Photography Basics – First Year - Intermediate

Exhibit requirements the same as for CLASS 2101.

CLASS 2103. UNIT 1 – Photography Basics – First Year - Senior

Exhibit requirements the same as for CLASS 2101.

CLASS 2104. UNIT 1 – Photography Basics – Second Year – Junior

Exhibit will consist of the following:

- A. Completed e-Record. Include the following in your story: what camera you used this year (brand name, etc.), how you stored your pictures and why you picked your Display Photo. **Also include photos of you working on your project in the e-Record photo page.**
- B. Completed Photo Journal/Binder. All photos must be labeled as follows:
 1. Camera used
 2. Activity #
 3. Photo # (left to right & top to bottom)
 4. Subject
 5. Date photo taken
- C. Best Photo – 5" x 7" matted and ready to hang (no glass or frame)
- D. You will include the following photos (total of 25-27 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.
 1. Activity #9 – 2 photos:
 - a. Both 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 – 2 photos:
 - a. 1 photo using bird's eye view
 - b. 1 photo using bug's eye view

3. Activity #11 – 2 photos:
 - a. Display 2 photos demonstrating your favorite magic trick photography techniques
4. Activity #12 – 2 photos:
 - a. 2 of your favorite selfies, keeping in mind the elements of composition
5. Activity #13 – 6 photos:
 - a. 2 action photos
 - b. 1 photo of a person
 - c. 1 photo of a place
 - d. 1 photo of a thing/still-life
 - e. 1 photo of an animal

6. Activity #14 – 3 to 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 & white photos, keeping in mind the rules of composition and lighting to produce creative photos

8. Activity #16 – 4 photos:
 - a. Choose 4 photos taken during your entire time in Unit 1 (including the First and Second year). These can be photos you have used for exhibit or photos that you took while experimenting with different photography techniques. Using the format of Photo Scorecard on page 79, evaluate your own photography (with labels and points) and include your evaluation with your exhibit.

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

CLASS 2105. UNIT 1 – Photography Basics – Second Year – Intermediate

Exhibit requirements the same as for CLASS 2104.

CLASS 2106. UNIT 1 – Photography Basics – Second Year – Senior

Exhibit requirements the same as for CLASS 2104..

CLASS 2107. Next Level Photography – Level 2 - Junior

Exhibit will consist of the following:

- A. Completed e-Record. Include the following in your story: what camera you used this year (Brand name, etc.), how you stored your pictures and why you picked your Display Photo 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 – 5" x 7" matted and ready to hang (no glass or frame).
- D. You will include the following photos (total of 31-32 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.
 1. Activity #1 – 2 photos:
 - a. 2 photos using different lenses for each photo

2. Activity #2 – 2 photos:
 - a. 2 photos using (2) special effects from the suggestions on page 16, or special effect lenses
 3. Activity #3 – 4 photos:

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

 - a. 2 photos demonstrating hard light
 - b. 2 photos demonstrating soft/diffused light
 4. Activity #4 – 2 photos:
 - a. Best reflection photos that have good composition
 5. Activity #5 – 2 photos without using flash to convey mood:
 - a. 1 photo using artificial light
 - b. 1 photo using natural light
 6. Activity #6 – 2 photos
 - a. 1 photo demonstrating rule of thirds in landscape view
 - b. 1 photo demonstrating rule of thirds in portrait view
 7. Activity #7 – 2 photos:
 - a. 1 photo demonstrating golden triangle using transparent template
 - b. 1 photo demonstrating golden rectangle using transparent template
 8. Activity #8 – 3 photos:
 - a. 3 photos of different subjects shooting from different angles and viewpoints
 9. Activity #9 – 2 photos:
 - a. 2 photos using composition elements and space in the photo to tell the story
 10. Activity #10 – 2 photos:
 - a. 2 candid photos
 11. Activity #11 – 1 photo:
 - a. 1 photo that fills the entire frame of the photo with a piece of the subject
 12. Activity #12 – 1 photo:
 - a. 1 panorama photo
 13. Activity #13 – 2 photos:
 - a. 1 photo that shows warm colors
 - b. 1 photo that shows cool colors
 14. Activity #14 – 4 photos:
 - a. Each photo should have a specific purpose behind it. Be sure to use the skills and techniques learned so far during your units to take quality photos for this activity.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2108. Next Level Photography – Level 2 – Intermediate
Exhibit requirements the same as for CLASS 2107.

CLASS 2109. Next Level Photography – Level 2 – Senior
Exhibit requirements the same as for CLASS 2107.

CLASS 2110. LEVEL 3 – Mastering Photography – Junior
Exhibit will consist of the following:

- A. Completed e-Record. Include the following in your story: what camera you used this year (Brand name, etc.), how you stored your pictures and why you picked your Display Photo 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. You will include the following photos (total of 29 photos) in your photo journal/binder. Photos may be mounted on cardstock with reference to activity.
 1. Activity #1 – 2 photos:
 - a. 1 photo using 1/250 f8 of a bright scene
 - b. 1 photo using 1/250 f8 of a dark scene
 2. Activity #2 – 2 photos:
 - a. 1 photo using small f-stop
 - b. 1 photo using big f-stop
 3. Activity #3 – 2 photos:
 - a. 2 night photos using correct aperture
 4. Activity #4 – 1 photo:
 - a. 1 photo with the subject backlit with the main subject in the foreground
 5. Activity #5 – 3 photos:
 - a. Silhouette in nature
 - b. Silhouette taken indoors
 - c. A silhouette of your choice
 6. Activity #6 – 1 photo:
 - a. 1 photo using either geometric shapes or interesting framing
 7. Activity #7 – 2 photos:
 - a. 1 photo that represents harmony
 - b. 1 photo that represents discord
 8. Activity #8 – 4 photos:
 - a. 4 still life photos that demonstrate similar themes, similar colors and different lighting
 9. Activity #9 – 4 photos:
 - a. 4 photos with different poses
 10. Activity #10 – 4 photos of different subjects using macrophotography:
 - a. 1 photo representing symmetry/asymmetry
 - b. 1 photo representing pattern/texture
 - c. 1 photo representing shape/form
 - d. 1 photo representing visual rhythms
 11. Activity #11 – 2 photos:
 - a. 2 action photos
 12. Activity #12 – 2 photos
 - a. 2 photos showing either astrophotography, underwater or infrared techniques
 13. Activity #13:
 - a. Make a poster board joiner
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2111. LEVEL 3 – Mastering Photography – Intermediate
Exhibit requirements the same as for CLASS 2110.

CLASS 2112. LEVEL 3 – Mastering Photography – Senior
Exhibit requirements the same as for CLASS 2110.

CLASS 2113. UNIT 4 – Lightning Photography – Junior

Exhibit will consist of the following:

- A. Completed e-Record with emphasis on accomplishments in your story. Include photos in the e-Record photo page of you working on your project.
- B. 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" x 7" 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, night-time, fireworks, moonlight, long exposure and high speed photos. For example: two lightning photos and one moonlight photo; or one lightning, one fireworks, one long exposure, and so on. Any combination can be done.
- E. Maximum size for the matted picture is no larger than 8" x 10".
- F. Attached to the back of the submitted print should be:
 1. Name
 2. County
 3. Date, time, and location of photo
 4. Make and model of camera used
 5. Shutter speed and aperture setting
 6. ASA film speed (for film cameras) or IOS resolution setting (for digital cameras)
- G. Project will be evaluated on the quality of information completed in the e-record (25%) and quality of exhibit (75%).

CLASS 2114. Unit 4 – Lightning Photography – Intermediate

Exhibit requirements the same as for CLASS 2113.

CLASS 2115. UNIT 4 – Lightning Photography – Senior

Exhibit requirements the same as for CLASS 2113.

CLASS 2116. UNIT 6 – Advanced Photography – Junior

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

Exhibit will consist of the following:

- A. Completed Photography Unit 6 e-Record with emphasis on accomplishments in your story. Include photos in the e-Record photo page of you working on your project.
- B. All photos must be labeled as follows in your photo journal/binder::
 1. Photo #
 2. Subject
 3. Date photo taken
 4. Notes
- C. Include the following information on the Specific Information Page in the Photography Unit 6 e-Record:
 1. Goals
 2. Plans
 3. Accomplishments
 4. Evaluation
- D. Photos should show your progress and be labeled as successful or not, plus reasons.

- E. Photo Journal/Binder/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 the quality of the written statement and completion of e-Record (50%) and quality of content in the notebook (50%).

CLASS 2117. UNIT 6 – Advanced Photography – Intermediate

Exhibit requirements the same as for CLASS 2116.

CLASS 2118. UNIT 6 – Advanced Photography – Senior

Exhibit requirements the same as for CLASS 2116.

DEPT. M – 4-H FILMMAKING

Note: Please read 4-H Project Exhibit Rules on page 1.

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 factual information about a person, event or process.
4. Promotional – This category is for films or public service announcement that are meant to publicize 4-H programs or some other cause that you are passionate about.
5. Voices of 4-H History – An historical perspective on 4-H. May be a narrative, documentary, animation, etc.
6. For all videos, a link must be provided to view the video.

CLASS 2201. Animation – Junior

Exhibit 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 & PG ratings). Videos may be disqualified if deemed to have questionable content. 4-H Code of Conduct must be followed.
- D. **A link must be provided to view the video.** Members must supply the following information:
 1. Name
 2. County
 3. Title
 4. Class
 5. 4-H Age
 6. Short Description
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2202. Animation – Intermediate

Exhibit requirements the same as for CLASS 2201.

CLASS 2203. Animation – Senior

Exhibit requirements the same as for CLASS 2201.

CLASS 2204. Narrative – Junior

Exhibit requirements the same as for CLASS 2201.

CLASS 2205. Narrative – Intermediate

Exhibit requirements the same as for CLASS 2201.

CLASS 2206. Narrative – Senior

Exhibit requirements the same as for CLASS 2201.

CLASS 2207. Documentary – Junior

Exhibit requirements the same as for CLASS 2201.

CLASS 2208. Documentary – Intermediate

Exhibit requirements the same as for CLASS 2201.

CLASS 2209. Documentary – Senior

Exhibit requirements the same as for CLASS 2201.

CLASS 2210. Promotional – Junior

Exhibit requirements the same as for CLASS 2201.

CLASS 2211. Promotional – Intermediate

Exhibit requirements the same as for CLASS 2201.

CLASS 2212. Promotional – Senior

Exhibit requirements the same as for CLASS 2201.

CLASS 2213. Voices of 4-H History – Junior

Exhibit requirements the same as for CLASS 2201.

CLASS 2214. Voices of 4-H History – Intermediate

Exhibit requirements the same as for CLASS 2201.

CLASS 2215. Voices of 4-H History – Senior

Exhibit requirements the same as for CLASS 2201.

DEPT. M – SCRAPBOOKING

Note: Please read 4-H Project Exhibit Rules on page 1.

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

For those members who are exhibiting in several classes, you may copy your e-Record. Each exhibit (class) must have an e-Record. Be sure to highlight what you are exhibiting in your e-Record.

CLASS 2301. Scrapbooking – One Page Layout - Junior

Exhibit will consist of the following:

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

1. Seniors shall complete Senior Project on page 32 of manual for a single page layout rather than the specified two-page layout. Place information in the e-Record on the Specific Information Page.
2. Complete activities 1, 2 & 3 in manual and place in record book.

- B. One page layout scrapbook page 8½" x 11" or 12" x 12".

1. Page shall contain the following techniques: Juniors – at least two (2) techniques from the album technique list; Intermediates – at least two (2) techniques from the album technique list; Seniors – at least three (3) techniques from the album technique list. Create a page that is pleasing to the eye, items are not cluttered and colors are appropriate to subject matter.
2. Exhibited in a three-ring binder or scrapbook binder.

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

- D. If memorabilia is utilized, it must be place in an archival safe sleeve.

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

CLASS 2302. Scrapbooking – One Page Layout - Intermediate

Exhibit requirements the same as for CLASS 2301.

CLASS 2303. Scrapbooking – One Page Layout – Senior

Exhibit requirements the same as for CLASS 2301.

CLASS 2304. Scrapbooking – Two Page Layout – Junior

Exhibit will consist of the following:

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

1. Seniors shall complete Senior Project on page 32 of manual. Place completed project in the e-Record on the Specific Information Page.
2. Complete activities 1, 2 & 3 in manual and place in record book.

- B. Designated Two-page layout in 8½" 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 two-page layout in appropriately sized binder in protective sleeve – archival safe.
2. Pages shall contain the following techniques: Juniors – at least two (2) techniques from the album technique list; Intermediates – at least three (3) techniques from the album technique list; Seniors – at least four (4) techniques from the album technique list.
3. Exhibited in a three-ring binder or scrapbook binder.

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

- D. If memorabilia is utilized, it must be placed in an archival safe sleeve.

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

CLASS 2305. Scrapbooking – Two Page Layout – Intermediate

Exhibit requirements the same as for CLASS 2304.

CLASS 2306. Scrapbooking – Two Page Layout – Senior

Exhibit requirements the same as for CLASS 2304.

CLASS 2307. Scrapbooking Album – Junior

Exhibit will consist of the following:

- A. Completed e-Record presented in a sturdy binder/notebook.
 1. Complete activities 1, 2 & 3 in manual and place in record book.
 2. Seniors shall complete senior Project on page 32 of manual. Place completed project in record book on the Specific information page.
- 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 sleeve and must include required techniques to be counted as page – archival safe. Memorabilia shall be encased in protective sleeve, but does not count in required page count if placed in a separate sleeve. For example, if album contains fifteen pages of layouts and the sixteenth page is memorabilia, only with no technique, the album is missing a page and can be disqualified.
 2. Include technique list, per page 5 of manual, on inside front cover of album. Mark album pages to correspond with technique list so the judge can easily find them (ex: number bottom corner of page protector).
 3. Album shall follow a theme or be in chronological order.
 4. All pages must include Journaling:
 - b. Correct spelling
 - c. Tell your story; who, what, when, where, why.
 - d. Title your page, or two page lay-out.
 - e. Album must contain at least one hand-written journal entry, all others may be typed.
 5. If adding pages to an album that has 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 exhibit in 2016)
- C. Technique List:

Juniors – 5 Techniques (mark the pages where the techniques are located in the album):

1. Stickers or Die Cuts or craft punch
2. Cutting or tearing
3. Photo matting (single or double)
4. Two (2) enlarged photos (minimum size 5" x 7"), one must be black & white or sepia
5. Two-page layout, coordinated and themed

Intermediates – 9 Techniques (mark the pages where the techniques are located in the album):

1. Stickers or Die Cuts
2. Cutting and tearing
3. Photo matting (single or double)
4. Craft punch
5. Inking/stamping
6. Two (2) enlarged photos (minimum size 5" x 7"), one must be black & white or sepia
7. Memorabilia (in protective sleeve – archival safe)
8. Dimensional Embellishment (button, beads, bling, eyelets, brads, etc.
9. Two-page layout, coordinated and themed

Seniors – 15 Techniques (mark the pages where the techniques are located in the album):

1. Stickers or Die Cuts
2. Cutting and tearing
3. Double photo matting
4. Two (2) enlarged photos (minimum size 5" x 7"), one must be black & white or sepia
5. Inking/stamping/coloring
6. Create a border

7. Fibers
8. Buttons or beads
9. Eyelets or brads
10. Ribbons or embossing
11. Craft punches
12. Chipboard
13. Dimensional Design (may use another technique to create dimensional design, such as die-cut and stamping. Does not count as two techniques.)
14. Two-page layout, coordinated and themed
15. Memorabilia (in protective sleeve – archival safe)

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

CLASS 2308. Scrapbooking Album – Intermediate
Exhibit requirements the same as for CLASS 2307.

CLASS 2309. Scrapbooking Album – Senior
Exhibit requirements the same as for CLASS 2307.

Senior project on page 31 of manual. Place information in the e-Record on the Specific Information Page.

CLASS 2310. Scrapbooking – Tag Making – Junior
Exhibit will consist of the following:

- A. Completed e-Record presented in a sturdy binder/notebook.
- B. Set of 5 different hand-made tags following a theme with a maximum size of 3" x 5" per tag displayed on a 12" x 12" board.
- C. No commercial based tags can be used.
- D. Five (5) techniques are required, at least two (2) per tag from the techniques listed in the album.
- E. List the techniques used in your story.
- F. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of the exhibit (75%).

CLASS 2311. Scrapbooking Card Making – Intermediate
Exhibit will consist of the following:

- A. Completed e-Record presented in a sturdy binder/notebook.
- B. Set of 4 different hand-made cards following a theme with a maximum size of 4" x 6" per card displayed on a 12" x 12" board.
- C. No commercial based cards can be used.
- D. Four techniques are required, at least three (3) per card. Techniques shall be labeled on the back of the board. Pick from the following list:
 1. Inking/distressing
 2. Stamping/coloring
 3. Fibers
 4. Buttons or beads/eyelets or brads
 5. Tearing
 6. Embossing
 7. Dimensional Design
 8. Craft punch/Die cuts
 9. Rub-ons/Stickers
- E. Project will be evaluated on the quality of the information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2312. Scrapbooking Card Making – Senior
Exhibit requirements the same as for CLASS 2311

DEPT. M – WOODWORKING

Note: Please read 4-H Project Exhibit Rules on page 1.

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 placings at State Fair.

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.

CLASS 2401. UNIT 1 – Measuring Up – Junior

NOTE: Use hand tools only. Articles made with tools other than hand tools will not be ranked in the top ten placings at State Fair.

Exhibit will consist of the following:

- A. Completed Woodworking e-Record with the plans used for making the exhibit (tell if the plan was your own, manual or other) presented in a sturdy binder/notebook.
- B. Include the following information on the Woodworking page;
 1. Plan source used (your own, manual or other)
 2. Kind of wood used
 3. Names of joints and fasteners used
 4. A drawing or other copy of a plan for the article exhibited:
 - a. dimensions
 - b. list of materials used
 - c. a description of any changes in the article's specifications
 - d. reason for the changes
 5. List of all articles made

The drawing or plan itself will not be judged. It is only for the judge's use in judging the article exhibited. If the drawing is missing, the exhibit will not be ranked in the top ten placings at State Fair.

- C. Any one article constructed by the exhibitor using the skills learned in the unit.
- D. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2402. UNIT 1 – Measuring Up – Intermediate

Exhibit requirements the same as for CLASS 2401.

CLASS 2403. UNIT 1 – Measuring Up – Senior

Exhibit requirements the same as for CLASS 2401.

CLASS 2404. UNIT 2 – Making the Cut – Junior

NOTE: The only tools allowed are: hand tools, power hand drill, miter box (non-powered), oscillating (pad) sander and jig saw. Articles made with power tools other than those listed, will not be ranked in the top ten placings at State Fair.

Exhibit requirements the same as for CLASS 2401.

CLASS 2405. UNIT 2 – Making the Cut – Intermediate

Exhibit requirements the same as for CLASS 2401.

CLASS 2406. UNIT 2 – Making the Cut – Senior

Exhibit requirements the same as for CLASS 2401.

CLASS 2407. UNIT 3 – Nailing it Together – Junior

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 placings at State Fair.

Exhibit requirements the same as for CLASS 2401.

CLASS 2408. UNIT 3 – Nailing it Together – Intermediate

Exhibit requirements the same as for CLASS 2401.

CLASS 2409. UNIT 3 – Nailing it Together – Senior

Exhibit requirements the same as for CLASS 2401.

CLASS 2410. UNIT 4 – Finishing Up – Junior

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.

Exhibit requirements the same as for CLASS 2401.

CLASS 2411. UNIT 4 – Finishing Up – intermediate

Exhibit requirements the same as for CLASS 2401.

CLASS 2412. UNIT 4 – Finishing Up – Senior

Exhibit requirements the same as for CLASS 2401.

DEPT. M – VISUAL ARTS

Note: Please read 4-H Project Exhibit Rules on page 1.

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.

CLASS 2501. Portfolio Pathways – Paintings & Printing - Junior

Exhibit 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 Specific Project Information page in the e-Record. (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 matte 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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2502. Portfolio Pathways – Paintings & Printing – Intermediate

Exhibit requirements the same as for CLASS 2501.

CLASS 2503. Portfolio Pathways – Paintings & Printing – Senior

Exhibit requirements the same as for CLASS 2501.

CLASS 2504. Portfolio Pathways – Graphic Design – Junior

Exhibit requirements the same as for CLASS 2501.

CLASS 2505. Portfolio Pathways – Graphic Design – Intermediate

Exhibit requirements the same as for Class 2501.

CLASS 2506. Portfolio Pathways – Graphic Design – Senior

Exhibit requirements the same as for CLASS 2501.

CLASS 2507. Sketchbook Crossroads – Drawing, Fiber & Sculpture – Junior

Exhibit 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 or Sculpture. Provide pictures of all completed art techniques on the Specific Project Information page in the e-Record. (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 information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 2508. Sketchbook Crossroads – Drawing, Fiber and Sculpture – Intermediate

Exhibit requirements the same as for CLASS 2507.

CLASS 2509. Sketchbook Crossroads – Drawing, Fiber and Sculpture – Senior

Exhibit requirements the same as for CLASS 2507.

DEPT. M – PRIMARY 4-H

CLASS 340. Arts & Crafts

Exhibit will consist of the following:

- A. Completed record book.
- B. Exhibit article.

CLASS 341. Hand Sewing

Exhibit will consist of the following:

- A. Completed record book.
- B. Exhibit article.

CLASS 342. Garden

Exhibit will consist of the following:

- A. Completed record book.
- B. Exhibit showing was what learned.

CLASS 343. Entomology

Exhibit will consist of the following:

- A. Completed record book.
- B. Exhibit showing what was learned.

CLASS 344. Primary Calf

Exhibit will consist of the completed record book.

CLASS 345. Primary Lamb

Exhibit will consist of the completed record book.

CLASS 346. Primary Goat

Exhibit will consist of the completed record book.

CLASS 347. Primary Rabbit

Exhibit will consist of the completed record book.

CLASS 348. Primary Poultry

Exhibit will consist of the completed record book.

CLASS 349. Primary Dog

Exhibit will consist of the completed record book.

PRIMARY FOODS

See Department L in this syllabus for class number and exhibit requirements. Dept. L Class 3000

PRIMARY DECORATE YOUR DUDS

See Department L in this syllabus for class number and exhibit requirements. Dept. L Class 2900

DEPARTMENT N

SHOOTING SPORTS

Note: Please read 4-H Project Exhibit Rules on page 1.

Project Exhibit Rules:

1. Be sure to include the log for the discipline that you are exhibiting.
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. (The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included on or in front of display board.) No wooden display cases.
4. No live ammo, tipped arrows (including field points, broadheads), knives, functional or nonfunctional firearms or bows will be allowed as an exhibit. Cardboard, paper cutouts or décor resembling firearms or bows are allowed for display purposes in the display or stand-alone classes.
5. 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 or primarily tactical in design firearms in your display. (i.e. AR platform or military type firearms).
6. The display board's 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.)
7. 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.
8. Because of limited floor space for displaying stand-alone items, there will be a maximum size of 3' in width & depth and 7' in height. The item must be stable when standing to be displayed. If an exhibit is larger than this, a notebook can be used as an exhibit showing how and what was made.
9. For those members who are exhibiting both a display board and 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.
10. No stand-alone items that are an exhibit at the time of the State Fair shooting contests will be allowed to be removed from the building to be used at the contests.
11. Label each item with name, address and county.
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 and look at the classes to determine where your exhibit item goes.

DISPLAY BOARD CLASSES

Exhibit 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.
- C. A Discipline Record Score Sheet is required.
- D. A display board illustrating something learned in the project this year. The standardized display board size of 4' x 3' is to be used for 4-H projects. No additional items may be included in front of display board.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 1301. Archery – Junior

CLASS 1302. Archery – Intermediate

CLASS 1303. Archery – Senior

CLASS 1304. Air Rifle – Junior

CLASS 1305. Air Rifle – Intermediate

CLASS 1306. Air Rifle – Senior

CLASS 1307. Shotgun – Junior

CLASS 1308. Shotgun – Intermediate

CLASS 1309. Shotgun – Senior

CLASS 1310. .22 Rifle – Junior

CLASS 1311. .22 Rifle – Intermediate

CLASS 1312. .22 Rifle – Senior

CLASS 1313. .22 Pistol – Junior

CLASS 1314. .22 Pistol – Intermediate

CLASS 1315. .22 Pistol – Senior

CLASS 1316. Muzzleloading – Junior

CLASS 1317. Muzzleloading – Intermediate

CLASS 1318. Muzzleloading – Senior

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

Items in wrong classes will NOT be eligible for blue ribbon placing. Exhibits must be entered in discipline that exhibit relates to.

CLASS 1319. Air Pistol – Junior

CLASS 1320. Air Pistol – Intermediate

CLASS 1321. Air Pistol – Senior

CLASS 1322. Western Heritage – Junior

CLASS 1323. Western Heritage – Intermediate

CLASS 1324. Western Heritage – Senior

CLASS 1325. Outdoor Skills – Junior

CLASS 1326. Outdoor Skills – Intermediate

CLASS 1327. Outdoor Skills – Senior

STAND ALONE CLASSES

These classes are for stand-alone items only. No display boards or decorative items are allowed in the Stand-Alone Classes. Please check out Rules #7 & #8.

Exhibit 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.
- C. A Discipline Record Score Sheet is required.
- D. 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.
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 1328. Archery Stand-Alone – Junior

CLASS 1329. Archery Stand Alone – Intermediate

CLASS 1330. Archery Stand Alone – Senior

CLASS 1331. Air Rifle Stand Alone – Junior

CLASS 1332. Air Rifle Stand Alone – Intermediate

CLASS 1333. Air Rifle Stand Alone – Senior

CLASS 1334. Shotgun Stand Alone – Junior

CLASS 1335. Shotgun Stand Alone – Intermediate

CLASS 1336. Shotgun Stand Alone – Senior

CLASS 1337. Air Pistol Stand Alone – Junior

CLASS 1338. Air Pistol Stand Alone – Intermediate

CLASS 1339. Air Pistol Stand Alone – Senior

CLASS 1340. .22 Rifle Stand Alone – Junior

CLASS 1341. .22 Rifle Stand Alone – Intermediate

CLASS 1342. .22 Rifle Stand Alone – Senior

CLASS 1343. .22 Pistol Stand Alone – Junior

CLASS 1344. .22 Pistol Stand Alone – Intermediate

CLASS 1345. .22 Pistol Stand Alone – Senior

CLASS 1346. Western Heritage Stand Alone – Junior

CLASS 1347. Western Heritage Stand Alone – Intermediate

CLASS 1348. Western Heritage Stand Alone – Senior

CLASS 1349. Outdoor Skills Stand Alone – Junior

CLASS 1350. Outdoor Skills Stand Alone – Intermediate

CLASS 1351. Outdoor Skills Stand Alone – Senior

CLASS 1352. Muzzleloading Stand Alone – Junior

CLASS 1353. Muzzleloading Stand Alone – Intermediate

CLASS 1354. Muzzleloading Stand Alone – Senior

DECORATIVE ITEM CLASSES

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.

Exhibit 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.
- C. A Discipline Record Score Sheet is required.
- D. One article which you have made as a part of the project this year. This item would be considered a decorative item (board with antlers, using feathers to make an item, jewelry, etc.)
- E. Project will be evaluated on the quality of information completed in the e-Record (25%) and quality of exhibit (75%).

CLASS 1355. Decorative Item – Junior

CLASS 1356. Decorative Item – Intermediate

CLASS 1357. Decorative Item – Senior

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 one. Make your display board 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'

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 un-crowded.

TEXT

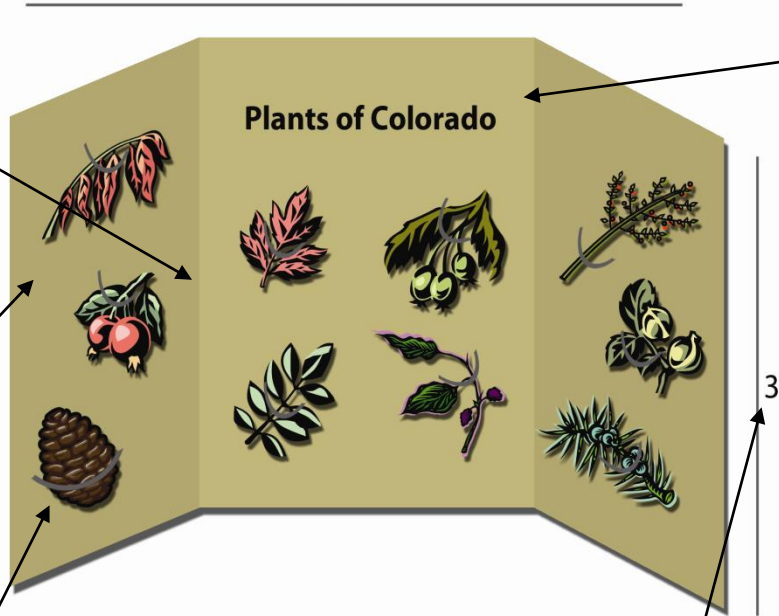
Make sure that all the text on your display is easy to read. Use a large font for the title, and smaller fonts for the headings and body text. Text must be readable from 3-5 feet away. Use large bold letters. Dark letters on a light background works best.

ATTACHMENTS

When attaching pictures and objects to your board make sure they are secure. 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 cover:

County, Name, Project Area, and Class
(See example)

Sample

Kit Carson County
033
Jane Doe
15
Animal Science
Vet Science
Class 009

Colorado 4-H Home Economics & General Projects

Hints for Excellent Exhibits & Record Books

by Daniel Einarsen, 4-H Agent, Arapahoe County

“What makes an outstanding 4-H exhibit?”

“Why did that kid get a higher placing than I did?”

“How could that goofy judge give *this* project a champion ribbon?”

Sound familiar? Admit it – you’ve probably thought or said these things, too.

Here are some answers when members & parents ask such questions:

1. **First of all**, a judge is hired to evaluate each exhibit on its own merit & quality - based on 4-H standards - as stated in the county fair book, (which should follow the Colorado State Fair 4-H Syllabus).

Regardless of quality, if an exhibit or record doesn’t follow published standards, it should not receive a blue ribbon. Nothing is unfair about this! Yet, some judges are not comfortable with this rule and feel it is inequitable to award a red ribbon for a “decent effort.” At state fair, a project *must* fall within the specific size and skill level parameters and match specific unit requirements in order to be placed in the “top ten.”

Judges and Extension staff can either **a)** “take the heat” for sticking to the rules verbatim and appearing heartless, or **b)** take the heat for flexibility and “not being fair to the kids who read and follow the rules.” Interview judging is helpful, but not universally practiced.

At any rate, 4-H families, volunteers and judges must have ready access to clearly written exhibit requirements in order to meet 4-H project expectations.

2. **Secondly**, the judge compares unit exhibits & records with each other. Let’s talk about records first. Some records are very complete, neat, and detailed about goals accomplished, field trips taken, demonstrations given, 4-H activities outside the project, etc. Many records have excellent photos, too. Some have wonderful written stories about what the 4-H’er learned and how much they gained from the project.

Other records are incomplete, brief, sloppy, full of spelling errors, etc. Some appear to be done by an adult or written in the car on the way to the fair. Some have a very brief story or none at all. Some have poor photos or none. A poorly done record book will diminish the overall exhibit quality, but an outstanding record book enhances any exhibit!

3. **Another thing** for 4-H’ers to remember is: records may not always be put on display with the exhibit, but the judge *does* read them. So it’s important to do a good job on records first. Judges may also be more lenient with parameters such as spelling, grammar and detail with younger, beginning members - but tougher on older, advanced members.

4. **Now**, what about the exhibit? Advice to kids: Your exhibit is what everyone comes to the fair to see, so make the display a real 'eye catcher' from a distance of 6 feet if you want anyone to notice it and learn something from you. If your exhibit gives a good first impression, the viewer will take a longer look.

Some exhibits *jump out at you*. Others don't. Some exhibits are striking, simple, attractive from a distance, and make you want to look longer. Others are not. Some show board displays are too complex or *busy*, with too many small details or tiny words printed on them. Poor exhibits are often fragile, poorly constructed or flimsy, and may not survive the environmental conditions at the fair. Other problems arise when exhibit items don't match the unit, or look like they were "thrown together the night before."

An outstanding exhibit has the following qualities:

- 1) Follows unit requirements and rules in the fair book
- 2) Attractive
- 3) Relatively simple
- 4) Colorful and/or showing strong contrast
- 5) Creative or artistic
- 6) Sturdy (won't fall apart in transit)
- 7) Educational
- 8) Intriguing
- 9) Gives viewer the impression that you enjoyed this project
- 10) Makes the viewer remark "wow" or "nicely done"

5. **A 4-H'er should** obtain a copy of the judging sheet prior to developing an exhibit. It shows what the judge will look for. 4-H members should also be trained in decision making/judging - through the 4-H program - so that they can learn to evaluate differences, based on criteria, and put themselves in the judge's shoes.

Bottom Line: Here's what a judge likes to see:

- 1) Complete, neat records indicating the 4-H'er learned and had fun.
- 2) A good story with interesting experiences explained.
- 3) Several photos with at least one action shot of the member doing something with their project. Photos showing processes, growth, change and action are always interesting. Years later, this will be the first page the 4-H member will turn to and reminisce.
- 4) Optional reports, experiments, etc. that are allowed.
- 5) An exhibit that has the 10 qualities listed above.

6. **The final thing to remember is that 4-H is about developing youth character and skills, more than the color of ribbons on projects. If 4-H'ers have done their very best, it doesn't matter where their exhibits place. And, if they aspire to "Make the Best Better" they are indeed CHAMPIONS!**