



# 2026 Exhibitors Book Livingston County 4-H Hemlock Fair



Building Exhibit Departments



# Important Exhibitor Information

This is your copy of the 4-H Exhibitors Book for the Hemlock Fair. READ IT CAREFULLY!

- All fair entries are to be submitted online at [fairentry.com](http://fairentry.com).
- Helpful instructions may be found on our website on the "Hemlock & NYS Fairs" page under "Fair Entry Help Tools".
- Helpful Planning Forms for the purpose of planning and assisting with the online entry process may be found at the back of this book.

## Fair passes and animal exhibitor parking tags will be available at:

- Meat Bird Show – Sunday, July 12th
- Dairy & Livestock Barn Set – Tuesday, July 15th, 5 pm
- Building Exhibit Judging Check in Sunday, July 19th, 1-4:30 pm
- 4-H Animal Office (animal exhibitors) starting Monday, July 20th
- 4-H Exhibitor Building (non-animal exhibitors) starting Tuesday, July 21st

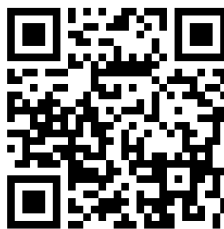
**Entries Due:  
June 22<sup>nd</sup>**

**\*No entries will be  
accepted after June 22<sup>nd</sup>  
The online system will close**



**Members and clubs are  
encouraged to incorporate  
the theme into their  
exhibits and displays**

Click [HERE](#) or  
scan the code  
to start your  
entries!



Click [HERE](#) or  
scan the code  
for Fair Entry  
Instructions!



**Questions on the Exhibitors Book, the Online Fair Entry System, or the Fair  
itself? Please contact us!**

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## ATTENTION PARENTS/GUARDIANS

We realize and appreciate the importance of the interest and cooperation of parents in assisting 4-H members in completing fair entries and in getting their exhibits to the fairs. However, we ask that parents remember that the 4-H Department is a youth show, conducted for their education and training. The setting up of exhibits, fitting, and caring of 2 animals should be handled entirely by youth while at the fairs.

# Table of Contents

## Building Exhibit Departments

General Rules & Regulations.....	Page 4
Department: 4-H Building Exhibits	
Section 20: Communications & Expressive Arts.....	Page 5
Section 21: Food & Nutrition.....	Page 6
Section 22: Fine Arts & Crafts.....	Page 9
Section 23: Hobby Crafts & Home Environment.....	Page 10
Section 24: Wearable Art.....	Page 11
Section 25: Textiles & Clothing.....	Page 12
Section 26: Child Development.....	Page 13
Section 27: Photography/Multimedia Design.....	Page 13
Section 28: Horticulture.....	Page 15
Section 29: Environmental Education.....	Page 21
Section 30: Plant Pathology.....	Page 22
Section 31: Entomology.....	Page 23
Section 32: Wood Science.....	Page 25
Section 33: Electrical Science.....	Page 25
Section 34: Rocket Program.....	Page 25
Section 35: Constructed Projects with Manufactured Components.....	Page 26
Section 36: 3-D Printing.....	Page 27
Section 37: Computer Science.....	Page 27
Section 38: Engineering.....	Page 28
Section 39: Maker Tinker.....	Page 28
Section 40: Geospatial Science.....	Page 29
Section 41: Renewable & Sustainable Energy & Climate Change.....	Page 29
Section 42: Science Experiments & Exhibits.....	Page 29

# 4-H Exhibits: Rules & Regulations

1. This department is open to all Livingston County 4-Hers enrolled by April 30, 2026.
2. Registered Cloverbuds may present projects completed during the current 4-H year to receive positive feedback during 4-H Exhibit Judging Day. Cloverbuds may exhibit project animals (1 per species) in Cloverbud Showmanship Classes to receive positive feedback. Cloverbuds and projects/animals will not be evaluated and no premiums will be awarded. Participation ribbons will be presented.
3. All fair entries must be submitted online (free of charge) by June 22nd. Go to <https://faireentry.com/> to log in and begin the entry process. Instructions may be found at <http://cclivingstoncounty.org/4-h-youth/hemlock-nys-fairs>. Planning Forms to assist with the online entry process may also be found on this page or at the back of this book. The online fair entry system will close on June 22nd. Entries cannot be entered/submitted after June 22nd. Any 4-Her interested in entering an open class must do so through the Fair Secretary and by the deadline stated in the open class book. See the Hemlock Fair website for information.
4. All exhibits entered must have been grown, produced, or made by the exhibitor. Exhibits made during the current 4-H year may be evaluated.
5. All 4-H Dairy & Livestock and Small Animal exhibitors are required to complete one 45-minute animal-related educational activity by July 1st regardless of the number of species being exhibited. Cloverbuds are exempt.
6. Projects must be exhibited at Hemlock Fair to be eligible for State Fair consideration.
7. Contact the CCE Office prior to Hemlock Fair if you are interested in or planning on exhibiting animals at the New York State Fair in Departments 01-10. Entry information will be emailed to these exhibitors. State Fair information may be found at <https://nysfair.ny.gov/competitions/>.
8. No 4-H activities are scheduled after 9pm. Therefore, no exhibitors are to be on the fairgrounds after 9pm unless under direct supervision of a parent/guardian. Violators subject to the withholding of premium money.
9. No 4-H exhibitor will be permitted to sleep in the animal barns.
10. 4-H exhibitors and enrolled volunteers will receive a weekly gate pass. A maximum of two weekly gate passes per 4-H family will be issued only to parents/guardians. This gate pass includes entrance to the fairgrounds and grandstand but does not include rides.
11. No entry fee will be charged in this department.
12. The judges' decision will be final in all classes. Judging will be based on individual merit, taking into consideration the age, ability, and experience of the member. Premiums and ribbons will be awarded for each exhibit.
13. All building exhibitors must present their own exhibits to the judge(s).
14. Arrival and release of exhibits: All items must remain on display for the duration of the fair. Any exhibit removed from the fair prior to the release time will automatically forfeit premiums. Please follow the schedule.
15. Animal stalls must be left clean (unless otherwise instructed by Superintendent) or premium money will be forfeited.
16. Premiums in the 4-H Department will be paid by the Hemlock Fair Association.
17. Awards in all sections, except where otherwise stated, will be on a point system. The points are listed in each section. The total points will be added and divided into the amount of money available to determine the value of each point. EXAMPLE: If each point is found to be worth \$.50, awards would be as follows: (excellent) 2 points x \$.50 equals \$1.00; and (good) 1 point x \$.50 equals \$.50.
18. Exceptions to the Rules & Regulations must be approved by an educator. Violators are subject to the withholding of their premium money. If entry rules are not followed, an item will be disqualified.
19. Every effort will be made to safeguard exhibits, but the Fair Association and 4-H assume no responsibility in case of loss of exhibits or damage by any cause, and upon this condition only are exhibits received.

# DEPARTMENT: 4-H BUILDING EXHIBITS

Sections 20-42 will be judged on Sunday, July 19<sup>th</sup> 1pm-4:30pm

## SECTION 20: COMMUNICATIONS & EXPRESSIVE ARTS

Classes 01-05: Excellent 5 • Good 4 • Worthy 3

### General Guidelines:

- The Number of years you have been participating in the project and two (2) things learned MUST be written on the back of your entry tag.
- All work is to be completed by youth exhibitor in current 4-H program year. Creative work should not contain content that would be inappropriate for the general 4-H audience. Any use of unsuitable language or story themes will not be accepted.
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entires per sub-class in sub-classes: 01 (A-E2), 02 (A-C), & 4 (A-D)**
- **Maximum of 2 entries per class in Class 03**
- **Maximum of 1 Open Class Entry (Class 05)**

### Class 00: CLOVERBUD EXHIBITS

#### Class 01: WRITING/PRINT

**A: ACHIEVEMENT/RECORD BOOK** – A collection of items assembled to demonstrate involvement in projects and activities during current 4-H year. Evaluators will look for attractive cover and title page, a table of contents and/or the use of section dividers, and content that reflects involvement in 4-H experiences. Items displayed in book should be labeled to reflect what experiences they relate to. Book must contain a story that summarizes the accomplishment and skills learned throughout current 4-H year. The inclusion of non-4-H activities is acceptable but should be kept to minimum.

**B: SCRAPBOOK** – Reflects the use of creative scrapbooking techniques to tell about events and/or activities. Theme may be 4-H or non 4-H in nature. Exhibits evaluated on overall appearance, creativity, and the appropriate use of scrapbooking techniques to tell a story. If scrapbook reflects the activities of the 4-H Club, work must be completed solely by one 4-H member. Club scrapbooks to be entered in Section 47: Class 05.

**C: PRESS RELEASE OR EDITORIALS** - Submitted to the media. If the release was printed, please include a copy, indicating date of release and title of publication.

**D: 4-H PORTFOLIO/SUMMARY BOOK** – Portfolio should include completed NYS Portfolio Summary Document found in Club Management Notebook, (Tab #4, Section 5-5 Record Keeping: Tool 5C), appropriate record sheets, and a 4-H Story documenting member participation and evidence of growth through involvement in 4-H program for current year. The 4-H Story is a significant and important part of the Portfolio. Exhibitors are expected to pay attention to formatting, spelling, and grammar usage. Individual project records from previous years, pages of pictures, and actual ribbons should not be included in the Portfolio. Exhibit will be judged on ability of exhibitor to clearly record information, the ease at which evaluator is able to understand scope of experiences and involvement, and the overall 4-H story.

**E: CREATIVE WRITING** – Creative writing will be evaluated on content; standard punctuation and grammar; rhyme (if applicable); use of expressions, actions, dialogue; and overall “tone” of written piece. How the piece is presented and neatness and creativity of presentation will also be considered in evaluation. There is a limit of six one-sided pages; however if a piece is longer, the exhibitor can enter a synopsis along with total piece. The synopsis can be no more than the six page limit. Recorded oral presentations of work can also be submitted with written work.

**E1: FICTION** – Writing can be presented in any form of genre such as a story, letter, poem, or script for stage or screen.

**E2. NON-FICTION**– In this form of creative writing, author uses self-exploratory writing that draws on personal experiences. The format could be an autobiography, personal story, letter, poem, or script for stage or screen that is based on true-life experiences for author.

**Class 02: POSTERS AND 3-DIMENSIONAL DISPLAYS** – Exhibit should be self-explanatory through use of appropriate captions, signs, or labels and should be limited to approximately card table size. Exhibit will be evaluated on content, illustration, organization, clarity, visual appeal, and readability.

**A: PUBLIC PRESENTATION POSTER** – Be prepared to explain to evaluator why/how poster was used.

**B: POSTER/EXHIBIT: INDIVIDUAL** – A series of posters (at least 14” x 22”)/photos (8” x 10”) or 3-D exhibit representing any aspect of 4-H Youth Development projects and/or activities.

**C: DISPLAYS DEMONSTRATING A 4-H THEME** - Exhibitor may use any suitable materials or photographs to demonstrate to the public a theme of 4-H, such as “4-H Takes You Places”, “4-H Grows Here”, “4-H Grows True Leaders”, “Learn by Doing in 4-H”, “Building Sustainable Communities,” the current fair theme or other appropriate theme approved by the county educator. Display should incorporate some text to help fairgoers understand what 4-H is all about.

**Class 03:** 4-H BANNERS - Group or club project to be entered in Section 47: Class 04.

- Size: 2' x 4' minimum.
- Designed to hang vertically or horizontally, or to be carried horizontally.
- Must be equipped with a dowel suitable for hanging or carrying.
- Any assembly technique can be used.
- Must incorporate the 4-H clover.

**Class 04:** PERFORMING ARTS – Exhibits should illustrate exhibitor's involvement in performing arts. Involvement may be as a performer, technical support staff, review, or observer.

**A:** PROP – Any object or material constructed by the exhibitor for use in a production. Examples: backdrop, scenery, puppet, mask, etc.

*Note: Costumes are evaluated in Textiles & Clothing classes.*

**B:** SCRIPT – An original sketch, scene, or play written by the exhibitor.

**C:** DOCUMENTATION – Notebook, posters, or 3-dimensional exhibits about involvement in live performances.

**D:** OTHER – Any performing arts exhibit or project falling outside the categories described above.

**Class 05:** OPEN CLASS- Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.*

## **SECTION 21: FOOD & NUTRITION**

Classes 01-26: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- Bring a 4x6 picture of your final baked good to be displayed during the fair. Food items will be sent home after judging is complete.
- All baked entries must have been baked from scratch by exhibitor. No ready-made, refrigerated or frozen dough, pastry crust, or box mixes permitted.
- Exhibits requiring refrigeration (cream or custard-based pies, cream cheese, cakes) are not allowed.
- Our goal is to encourage the mastery of skills. Fewer ingredients generally means a simpler recipe. The more experienced 4-H member is encouraged to exhibit a more difficult recipe. Exhibitors are encouraged to not exhibit in the same class year after year in order to demonstrate mastery of new skills.
- Demonstrate good nutritional choices in your recipe. Recipe may not include alcohol (this does not include vanilla which is a standard ingredient) as one of the ingredients.
- An exhibit is 3 samples of small items (cookies, muffins, cupcakes, rolls, breadsticks, pretzels, or similar products); ½ of large item (loaf bread, cake, coffee cake, or similar products); or whole item if needed to convey appearance of product (pie, animal-shaped bread, or similar products).
- Bread (both loaf and yeast) should be baked in a standard sized loaf pan (8½" x 4½").
- Remove all items from baking pans (except pies) and exhibit on paper plates or foil-wrapped cardboard. Exhibit must be covered with plastic resealable baggies – no plastic wrap. Do not bake muffins or cupcakes in paper liners.
- Include recipe card (product name, ingredients with quantity, preparation steps, yield, source of recipe) with all baked entries. Indicate how recipe was modified to make it healthier.
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 02-16, & 19-25.**
- **Maximum of 2 entries per sub-class in sub-classes 17(A-G), & 18 (A-D).**
- **Maximum of 1 Open Class Entry (Class 26).**

### **Class 00:** CLOVERBUD EXHIBITS

**Class 01:** DROP OR HAND-SHAPED, PRESSED, PAN-BAKED, ROLLED, OR REFRIGERATOR COOKIES - Examples: drop-chocolate chip, applesauce, oatmeal; hand-shaped peanut butter, snickerdoodles, crinkles; pan-baked date bar, pumpkin bar, brownies, layered fruit bars; or other batter cookie. No frosting or added decorations that are not part of the recipe. Hand-shaped cookies can be rolled in sugar if part of recipe. **Maximum of 4 entries. Preferably no more than 1 Drop, 1 Hand-Shaped, 1 Pan-Baked, & 1 Rolled.**

### **MUFFINS, BISCUITS & BREADS (NO YEAST)**

**Class 02:** MUFFINS - Plain, whole wheat, cornbread, bran, apple, or other. No toppings.

**Class 03:** BISCUITS OR SCONES - Plain, whole grain, flavored, or other shaped (rolled & cut) biscuits or scones. No toppings.

**Class 04:** LOAF BREAD - Banana, blueberry, apple, pumpkin, or other bread baked in a loaf pan. No toppings. Loaf **MUST** be cut in half for judging

## YEAST BREADS

**Class 05:** YEAST ROLLS - Plain, whole grain, flavored, or other yeast rolls of any shape; does not include fancy rolls with fillings or frosting. Loaf MUST be cut in half for judging.

**Class 06:** YEAST BREAD - Plain, whole grain, flavored, or other baked in a loaf pan. Loaf MUST be cut in half for judging

**Class 07:** SHAPED BREAD - An exhibit is any small (such as pretzels or breadsticks) or large (such as animal shaped) hand shaped bread. Plain, whole grain, flavored, or other; does not include fancy yeast breads with fillings or frosting.

## CAKES

**Class 08:** PLAIN CAKE - Exhibit will consist of one-half of the following: 1) plain cake (spice, chocolate, butter) baked in a pan approximately 8-9" (round or square); or 2) a foam-type cake (angel food, sponge, chiffon) baked in a tube pan, approximately 9-10". Unfrosted. Cakes with frosting or topping may be entered in Grown in NY or Heritage/Cultural Foods.

**Class 09:** CAKES WITH NUTRITIOUS INGREDIENTS - An exhibit will consist of one-half of a cake which is made with vegetable or fruit (no fruitcakes), such as carrot, applesauce, beet, sweet potato, cabbage, etc. baked in an appropriate size pan, approximately 8-9" round or square or 9-10" tube. In evaluating nutritious cake, more consideration will be given for nutritious ingredients while recognizing the cake will be heavier and moisture content will vary. Unfrosted.

**Class 10:** CAKE DECORATING - Frosted and decorated cake, special occasion disposable form, or three cupcakes for a birthday, anniversary, graduation, etc. Decorations need to be made with decorator's frosting using decorator's tips. Candies, actual flowers, and other decorations can only be added to enhance the frosting decorations, not used alone.

## PASTRY/PIE

**Class 11:** PIES - Fruit pies - 2 crust pastry. Top crust can be latticed or decorative pastry, no crumb toppings. Ex. Apple, blueberry, cherry, etc. Please enter in disposable pie pans 6" or larger. Pies requiring refrigeration (cream or custard-based pies, cream cheese, etc.) are not allowed.

**Class 12:** TARTS OR TURNOVERS - An exhibit is three items. Ex. Peach tarts, apple turnovers, etc. No refrigerated exhibits.

## OTHER BAKING CLASSES

**Class 13:** HEALTHY BAKED PRODUCT - Any baked product that is made with less sugar, fat, or salt; altered using a sugar or fat substitute; or is gluten-free. An explanation of why you made it healthy, made changes to the recipe, or used gluten-free ingredients must be included. Cookies, loaf bread, cake, cupcake, coffee cake, muffins, pies, or other baked items.

**Class 14:** GROWN IN NEW YORK - An exhibit is a sample of any baked product that contains a fruit or vegetable grown in New York State and must include: (a) recipe, (b) explanation of ingredient grown in New York, including where it was grown and purchased; if it was preserved for later use; and (c) a statement about the nutritional value of the item produced in New York. Source of ingredient can be garden, U-pick or roadside stand, farmers market, or any market if source can be identified. Cookies, muffins, bread, cake, cupcakes, coffee cake, pie, or other baked items.

**\*\*See RECIPE COLLECTIONS below for more HEALTHIER CHOICES options.\*\***

**Class 15:** HERITAGE/CULTURAL FOODS - An exhibit is a sample of any baked item associated with cultural customs/tradition of family or country populations. Entry must include: (a) recipe; (b) tradition associated with preparing, serving, eating the food; and (c) historical background if doing a cultural food. Cookies, muffins, bread, cake, cupcakes, coffee cake, pie, or other baked items.

**Class 16:** FOOD TECHNOLOGY EXHIBIT - Exhibit to include a food product prepared using new technology or a non-traditional method (i.e. bread machine, cake baked in convection oven, baked item made in microwave, etc.). Include recipe and why you used this method.

## PRESERVED FOODS

Any processed food, including dried foods, will be evaluated based on appearance and process used. Due to food safety concerns, entry will not be tasted or opened. Process must be described.

### Criteria for Exhibiting Home Canned Foods:

- All canned foods must be processed in standard clear-glass Mason jars with self-sealing, two piece lids (metal lid and ring). Jars must be free of cracks, chips, etc.
- Jars must have a vacuum seal. Rings should have been removed after processing and cooling in order to clean and store canned good. Rings should be put back on for transport to fair, but removed by exhibitor before judging.
- Jars must be labeled on top lid with product name and date preserved. Do not put label on side of jar (makes it difficult for judges to view the product).
- Attach a separate card with recipe and recipe source. Should include (if not already in recipe) contents, type of pack (hot or raw), type of processing (boiling water or pressure canner), processing time, altitude adjustment, and date of processing.

### Criteria for Exhibiting Home Canned Foods Continued:

- Time and method of process should agree with United States Department of Agriculture (USDA) recommendations.
- Appropriate head space requirements must be followed. Fruit Juices: ¼ inch; Vegetables: ½ inch; Jams & Jellies: ¼ inch; Pickles: ½ inch; Tomatoes: ½ inch or according to USDA approved recipes.
- The following entries will be disqualified: a) foods processed and packaged not following current (1994 or later) USDA recommendations; b) Paraffin sealed jams and jellies; c) Jars with zinc lids; d) Foods in green glass jars or non-standardized jars (like baby food, mayonnaise, etc.); e) Jars with more than 2” headspace; f) Jars with added color, bleach, sulfite or other preservatives, unless called for in a USDA approved recipe. (For example, baking soda may not be added to green vegetables); or g) Jars or food made and processed over one year ago.
- Remember to use only USDA tested and approved recipes. The USDA has researched, tested, and approved recipes for home canning. In order to obtain a safe, quality product use only up-to-date (1994 or later) USDA approved recipes. Approved recipe sources include: National Center for Home Food Preservation at <http://www.uga.edu/nchfp/>, So Easy to Preserve - University of Georgia, your Cornell Cooperative Extension office, and Ball® Blue Book.

**Class 17: CANNED FOODS** - Foods in unapproved containers, or more than one year old, will not be judged.

\*Refer to criteria for item specific details

**A:** CANNED FRUIT

**B:** VEGETABLE

**C:** TOMATOES

**D:** JUICE

**E:** PICKLES, RELISH

**F:** JAM, JELLY, MARMALADE

**G:** OTHER

**Class 18: DRIED/DEHYDRATED FOODS** - Dried foods must be displayed in either clear one-half pint or pint size zip closure bags or glass jars with tight fitting lids. Foods in unapproved containers, or more than one year old, will not be judged. Top of jar or container must be labeled with the product and date processed. *\*Refer to criteria for item specific details\**

Entry card should include method of drying, time and temperature of drying, pre-treatment method (if used), and source of directions. Attach additional 3x5 card if needed.

**A:** DRIED VEGETABLES

**B:** DRIED FRUIT

**C:** LEATHERS

**D:** HERBS

**Class 19: MAPLE SYRUP PRODUCTS** - An exhibit will consist of homemade maple syrup in a clear glass bottle appropriate for syrup products. A card must be attached to entry explaining the process used to make the syrup and the resource(s) of information.

### **HEALTHIER CHOICES**

**Class 20: HEALTHY SNACK** - This may be an actual food exhibit, poster, photos, or may include faux food. The idea is to prepare an example of a healthy snack that you might have yourself or may prepare for friends. Actual food exhibits must be able to be presented without the need of refrigeration. Examples of Healthy Snacks: veggie platter, smoothie, or fruit kabobs. A 3x5 card should include serving size and information about nutritional value of snack.

**Class 21: PACKED LUNCH** - Entry is to be presented in a lunch bag or box (think about how this will be displayed at county booth). Display may include photos or pretend food, actual items will not hold up. On a 3x5 card include the following: a) Dietary needs of individual that lunch is for (Ex. A 3rd grader will require less food than a high school athlete) and b) Facilities available for keeping lunch (Ex. Will this be used on a trail ride? Lunchroom? Do you need a microwave in order to prepare?).

**Class 22: MENU FOR A DAY** - The menu should include complete listing of all meals and snacks that would be eaten over a one-day period. A description of individual or family for whom meals are intended must be included. Typed exhibit with photos is recommended, creativity is encouraged.

## RECIPE COLLECTIONS

**Class 23: HEALTHY RECIPE COLLECTION** - At least 6 recipes (displayed in a box, notebook, or file folder; can include photos or illustrations) that provide needed nutrients while limiting fat and total calories. For each recipe, state: (1) relationship of key ingredients to ChooseMyPlate.gov; (2) nutritional benefit; (3) source of recipe; (4) how well it was liked; and (5) any changes you would make in the recipe. All recipes must be collected and made during current enrollment year.

**Class 24: HERITAGE RECIPE COLLECTION** - At least 10 recipes (displayed in box, notebook, or file folder; can include photos or illustrations) that depict family or local history. For each recipe, state: (1) source of recipe; (2) history related to recipe; and (3) traditions related to preparing, serving, and eating the food. For 4 of the 10 recipes, indicate how well it was liked after making it. The collection should represent one or more generations older than you and can be collected from family, friends, or other community sources. All recipes must be collected and at least 4 of the 10 prepared during current enrollment year.

## OTHER FOOD & NUTRITION CLASSES

**Class 25: PET TREATS** – An exhibit will consist of 3 samples or 1 cup mix of baked treats for dogs, horses, etc. Will be evaluated on appearance, smell, and texture. Attach card explaining reason for treat (your pet, community service project, fundraiser).

**Class 26: OPEN CLASS** - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* A recipe and written description of the process used for creating the item must be included.

## SECTION 22: FINE ARTS & CRAFTS

Classes 01-04: Excellent 5 • Good 4 • Worthy 3

### General Guidelines:

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- Entry in Fine Arts & Crafts is to be made entirely by the exhibitor, not a collaborative effort with a commercial business. This includes selection of materials and the entire construction process. Ex. Ceramics should not be made from pre-made molds that are just painted. Exhibits meeting that criteria should be entered in the Hobby Craft Section.
- Crafts made from commercially available kits should be exhibited in Hobby Craft & Home Environment, Section 23.
- Must be in good condition, ready for display. Small, delicate, fragile items should be displayed in a display box. Objects whose ultimate use is to hang on the wall must have mountings on them and be ready for hanging.
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per sub-class in sub-classes 01 (A-D), 02 (A-I2), & 03 (A-C).**
- **Maximum of 1 Open Class Entry (Class 04).**

### Class 00: CLOVERBUD EXHIBITS

**Class 01: FINE ARTS** - Artwork is to be signed, matted, and framed.

**A: DRAWING** – Expressive work in pencil, charcoal pencil, felt tip pen, stick charcoal, crayon, colored chalk or pastel, or brush and ink.

**B: PAINTING** – Expressive work in oil, watercolor, acrylics, or mixed media. (i.e., watercolor and ink, acrylic and chalk, acrylic and collage, etc.)

**C: GRAPHICS/PRINTS** – Any printing process that duplicates one or more identical images. Minimum of two images in exhibit. Include the stamp or photo of the graphic (ex. potato or apple).

**D: SCULPTURE** – Materials may be wood, stone, clay, original cast plaster, paper-mache, metal (sheet or wire), fibers, fabric, fiber glass, or a combination of these. Processes may be carved, modeled, fired, soldered, glued, molded, laminated, nailed, or sewn.

### Class 02: FINE CRAFTS

**A: POTTERY** – Objects of clay, fired and/or glazed, hand built, wheel thrown, or cast from original mold. No preforms permitted. Entries using preforms are to be entered in Hobby Crafts & Home Environment - Section 23.

**B: CERAMIC** - Any form cast from a commercial mold or pre-form. Cleaned and painted/stained/glazed. Proper sealant if not glazed.

**C: FIBER, FABRIC** – Original design objects of 2 or 3 dimensions of fibers and/or fabrics used singly or in combination, employing any of the following techniques: weaving, knotting, needle arts, string art, sewing, crochet, knitting, etc.

**D: LEATHER** – Using no pattern. Objects can be tooled, carved, molded, stamped, laced, stitched, and/or riveted. Can be combined with other materials.

**E: GLASSWORK** – Etched and stained glass. Original design. Glass pieces made at a commercial business should be entered in Hobby Craft section.

**1:** Etched, sandblasted, blown or pulled, annealing/tempering/slumped/fired.

**2:** Stained Glass: No painted glass or liquid lead.

**F: METAL** – Jewelry and objects of metal(s) used singly or in combination with other materials, such as other metals, plastics, wood, ground stones, bone, and enamel. Objects can be made by the following processes: hand-cut, etched, engraved, tooled, or molded. No entries with tin cans permitted.

**G: MOSAICS** – 2-D or 3-D objects using clay tile, glass, stone, or natural and found materials. No stepping stones. Stepping stones should be entered in Section 23 - Hobby Crafts.

**H: WOOD AND/OR PAPER** – Processes: carving, woodburning, gluing, inlay, cutting, tearing, layering, quilling, or (origami) folding. Entries of cards should have a minimum of two samples for an exhibit.

**I: JEWELRY** - May include designs from pattern books, bead loom, crochet, etc. NO KITS, NO PONY BEADS

**1: HAND-MADE MATERIALS** - Ex. silverworks, glass blowing, clay formation, paper formation, stone, fossils, enameling, etc.

**2: PURCHASED MATERIALS** - Pattern (A commercial pattern or hand-drawn design) must be provided. Jewelry exhibits made with purchased materials using more creative and intricate forms to string beads. Simple string of beads should be entered in Section 23 - Hobby Crafts.

### **HERITAGE ART, CRAFTS, & DOCUMENTATION**

Emphasis on personal growth and knowledge through learning about a cultural heritage. It is based on research of traditional designs, methods, and materials, as well as learning the necessary skills.

- On a 3x5 card, include the source of traditional design (specific ethnic group or family) and design plan/chart and historical background as appropriate.
- Objects should be constructed in traditional design methods and materials; but if not, state what the traditional design methods and materials would be and what you had to replace them with to complete the project.
- No soap entries of any kind will be accepted.

#### **Class03: HERITAGE ART EXHIBIT**

**A: HERITAGE ARTS AND CRAFTS** – Traditional objects using materials, methods, and/or decoration based on a continuation of ethnic art or handed down from one generation to another. Example: basket making, rug making, embroidery, quilting, decoupage, tin punch felting, quilling, Native American arts, scherenschnitte, stencil created by exhibitor.

**B: PROCESSED NATURAL FIBERS** – Natural fibers processed for use.

**C: HERITAGE DOCUMENTATION** – Documentation of family or community history, buildings, or methods of processing and/or use. Cite references. \*\* NOTE: Photographic documentation is exhibited in Photography/Multimedia Design, Section 27.

**Class04: OPEN CLASS** - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.*

## **SECTION 23: HOBBY CRAFTS & HOME ENVIRONMENT**

Classes 01-11: Excellent 5 • Good 4 • Worthy 3

#### **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned MUST be written on the back of your entry tag.
- An exhibit can be made from a commercial kit or pattern as these give a youth the chance to explore new craft areas.
- Craft objects must be in good condition, ready for display.
- Must exhibit age appropriate work and good quality workmanship of the craft.
- If an exhibit takes a short length of time, multiple items may be exhibited and displayed nicely to create one exhibit.
- If a commercially available kit/pattern is used include the name of the kit/pattern on your Entry Tag.
- Small, delicate, fragile items should be displayed in a display box. Objects whose ultimate use is to hang on the wall must have mountings on them and be ready for hanging.
- These exhibits can be hobby crafts and/or can be made from commercial patterns and kits. Original designed items can be entered in Section 22 Fine Arts & Crafts.
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 3 entries per sub-class in sub-classes 01 (A-C)**
- **Maximum of 2 entries per class in classes 02-05 & 07-09**
- **Maximum of 1 entry per class in class 06**
- **Maximum of 1 Open Class Entry (Class 10)**

#### **Class 00: CLOVERBUD EXHIBITS**

#### **Class 01: HOBBY CRAFTS**

**A: CRAFT KIT** – A commercially available kit or experience used to explore a new area. Can be using any material (fabric, leather, metal, mosaics, glasswork, wood, paper, rubber bands, beads, etc.) to make items like stuffed animal, wallet, tin punch lamp, stepping stone, wreath made from twigs, origami, bracelet and/or earrings, etc. Give name of kit or experience/location on Entry Tag.

**B: CRAFT NON-KIT** – Purchased all the supplies for this exhibit separately. Can be of any material (fabric, leather, metal, mosaics, glasswork, wood, paper, rubber bands, beads, etc.) to make items like stuffed animal, wallet, tin punch lamp, stepping stone, wreath made from twigs, origami, bracelet and/or earrings, etc. Please give name of pattern, book, or resource used to complete this craft on your Entry Tag.

**C: RECYCLED KIT** - Items made, remodeled, or renovated from recycled material. Example: picture frame covered in seashells, sculpture made from recycled plastic bags, or tin punch luminaries. Include where recycled material came from on Entry Tag.

**Class 02: ROOM ACCESSORIES/EMBELLISHED FURNISHING:** Items such as bulletin board, fabric décor, lampshade, and picture frame (may be non-sewn items). Includes items such as placements and lampshades that have been changed by adding fabric, painted design or other embellishments.

**Class 03: FABRIC ACCESSORY:** Such as pillow, blanket, wall hanging, windsock, placemats, napkins, tablecloth, macramé, and needlework items including needlepoint, bargello, counted cross-stitch, latchhooking, crewel embroidery, candlewicking, stuffed animal, knitting, and crocheting, etc. \*NOTE: Club projects should be entered in Section 47, Class 06 by the Club Leader.

**Class 04: MAJOR FURNISHING ITEMS MADE OF FABRIC:** Quilt, bedspread, coverlet, dust ruffle, curtains, draperies, slipcovers, etc. \*NOTE: Club projects should be entered in Section 47, Class 06 by the Club Leader.

**Class 05: HOME STORAGE** – Ex. laundry bag, shoe bag, locker caddies, travel storage, etc.

**Class 06: TABLE SETTING EXHIBIT** – Entry should include table setting for 1 person, menu, short story about the specific occasion, tablecloth, placemats, napkins (may be artfully displayed/folded), centerpiece or table decoration as appropriate to complete the table setting. Exhibits can be displayed on a small table such as a card table (provided by exhibitor) or in an area no bigger than a 24” wide by 30” deep space. Exhibit is to remain in place during full time period.

**Class 07: CREATIVE FRAMING** - Exhibits simply placed in a commercial frame are ineligible. Exhibitor is expected to draw on their artistic sensibilities to enhance an existing image via the creative framing process. Photographic image may come from Section 27: Class 01 or Classes 05-08. Exhibitors should use their imagination such that Creative Framing serves to create a visual image that is more powerful than the sum of all its parts. The possibilities are limited only by your own ideas and collaboration. Entry will include both photo and frame and item will be evaluated together. Photo is not to be entered in any other class. Creative Framing possibilities:

- Create your own physical frame using materials discovered in the environment (i.e., leaves, sticks, pinecones).
- Sandwich photo between two pieces of commercially framed glass, then add your own rendering to the piece.
- See the physical frame as a three-dimensional space that uses depth in ways that stimulate viewer attention.
- Decorating/adding to a commercial frame is acceptable, as long as exhibitor “made it his own” by modification.

**Class 08: FURNITURE OR WOODEN ACCESSORY ITEM WITH A PAINTED/NATURAL FINISH** - Such as chair, table, shelf, picture frame etc. that is refinished by exhibitor. Emphasis is the restoration and not the actual construction of the exhibit. Newly constructed items can be entered in Section 32 – Wood Science if exhibitor wants woodworking skills evaluated.

**Class 09: CHAIR OR STOOL WITH NEW SEATING** - Entry is for seat evaluation only.

**Class 10: OPEN CLASS** - May enter one exhibit. Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.*

## **SECTION 24: WEARABLE ART**

Classes 01-04: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- For all classes in Wearable Art (Section 24) and Textiles & Clothing (Section 25), include the following on a 3x5 card:
  - a. Name or source of pattern.
  - b. Fiber content of item when available.
  - c. Care label information.
  - d. If a kit is used for down or fiberfill items for outdoor equipment (i.e., parka, hood, booties, sleeping bag, tent) this must be stated.
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-03.**
- **Maximum of 1 Open Class Entry (Class 04).**

**Class 00: CLOVERBUD EXHIBITS**

**Class 01: CROCHET/KNITTED FIBER CLOTHING** – Clothing made using a form of crocheting or knitting such as a sweater, vest, scarf, etc.

**Class 02:** TIE-DYEING/BATIK MATERIAL CLOTHING – Clothing made using tie-dyeing which utilizes knotting and folding techniques or batik which utilizes the immersion or outline fill-in techniques of wax resist to make such clothing as a tee-shirt, pants, etc. Purchased clothing can be used to do either of these techniques on.

**Class 03:** NON-TRADITIONAL MATERIAL CLOTHING – Clothing made using paper, duct tape, paper clips, bubble wrap, etc.

**Class 04:** OPEN CLASS - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* Example: Any new purchased clothing that has been embellished with applique, or hand (or machine) embroidery, or any type of textile arts manipulation.

## **SECTION 25: TEXTILES & CLOTHING**

Classes 01-09: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- For all classes in Wearable Art (Section 24) and Textiles & Clothing (Section 25), include the following on a 3x5 card:
  - a. Name or source of pattern.
  - b. Fiber content of item when available.
  - c. Care label information.
  - d. If a kit is used for down or fiberfill items for outdoor equipment (i.e., parka, hood, booties, sleeping bag, tent) this must be stated.
- For clothing made using a form of textile art or non-traditional material other than sewing, enter in Section 24.
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in class 01. Both entries MUST be the same sub-class level.**
- **Maximum of 2 entries per class in classes 02-08**
- **Maximum of 1 Open Class Entry (Class 09)**

### **Class 00:** CLOVERBUD EXHIBITS

**Class 01:** CLOTHING – Any beginner, intermediate, or advanced level sewn garment – guidelines are included below to assist member and evaluator in judging the skills of the 4-H member. Pieces of a coordinated outfit should be entered as one entry.

**A:** BEGINNING SKILL MEMBERS - Skills may include seams, pressing, casing for elastic, facing, hems, raglan and dolman sleeves, straps or belt loops, gathering, and waistband.

**B:** INTERMEDIATE SKILL MEMBERS - Skills may include gathering, collar, set-in sleeves, plackets and cuffs, zipper, pockets, pleats, plaid, snaps, and hook/eye machine buttonholes.

**C:** ADVANCED SKILL MEMBERS - Skills may include specialty fabrics, plaids and stripes, lining, bound buttonholes, welt pockets, and tailoring.

**Class 02:** CLOTHING ACCESSORIES, SEWN - Item created by exhibitor, which has decorative and/or functional purpose.

**Class 03:** HISTORICALLY ACCURATE CLOTHING, SEWN - Clothing made using materials and construction techniques appropriate for period clothing. Exhibit does not have to use exact fabric or technique, but should show evidence of effort.

**Class 04:** COSTUMES - Made using materials and construction techniques appropriate for costume design and use. For example, if costume is to be worn only once in a school play, the “look” of it from a distance will be more important than neat sewing.

**Class 05:** RECYCLED GARMENTS - A modified/recycled garment you purchased in the past and salvaged by significantly altering the original design OR remodeled or renovated items that are not clothing, like jeans turned into grocery/all purpose bags, t-shirts turned into a purse, towels turned into a dog toy, etc. Including a before picture is recommended.

**Class 06:** NON-CLOTHING, SEWN – Examples include outdoor equipment such as backpack, tent, sleeping bag; articles for a horse such as saddle pad, cooling sheet, saddle bags; or recreational items such as kites and toys.

**Class 07:** WEARABLE OR NON-WEARABLE ITEMS DESIGNED & CONSTRUCTED BY EXHIBITOR - Designs may be made by hand, by computer or combinations/design alterations of purchased patterns. Include pattern and description.

**Class 08:** PURCHASED GARMENT - Entries should reflect wise consumer decision-making. Garment or outfit must be accompanied by an 8 ½” x 11” information notebook. Notebook must include: (1) color photo of entrant wearing garment or outfit – label photo with name, county, and color of complexion, hair, and eyes; (2) cost of garment – include price tags or information, itemized comparison of cost to make garment – consider cost of fabric, notions, pattern, labor, etc.; and (3) story that describes: a) why garment was purchased; b) how it fits into wardrobe; c) fabric structure, fiber content, and care; d) simple accessories selected; and e) activities for which garment will be worn.

**Class 09:** OPEN CLASS - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.*

## **SECTION 26: CHILD DEVELOPMENT**

Classes 01-03: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01 & 02**
- **Maximum of 1 Open Class Entry (Class 03).**

### **Class 00: CLOVERBUD EXHIBITS**

**Class 01: CREATIVE TOY, GAME, OR STORYBOOK** - A homemade toy, book, game, or activity to be used with children. Your 3x5 card should include the age of the child intended to use article, developmental stage the item is suited for, and why this would be an appropriate play item.

**Class 02: BABY-SITTER'S KIT** - Including games, toys, and safety materials needed while caring for a baby, toddler, or preschooler. Include a 3x5 card with an explanation of planned use of items in kit.

**Class 03: OPEN CLASS** - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.*

## **SECTION 27: PHOTOGRAPHY & MULTIMEDIA DESIGN**

Classes 01-11: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- Exhibits evaluated on technical quality including image resolution and quality of printing, composition and artistic merit, story telling ability, and mounting of exhibit.
- Exhibit should be mounted on sturdy background (like Mat Board or Foam Core) and not in a commercial picture frame. Entries will not be accepted under glass or wrapped in plastic. Preparation of photo for exhibit should demonstrate good workmanship and use of materials. Exhibits should be ready to be hung.
- No photograph or digital image shall be smaller than 4" x 6" or larger than 11" x 14".
- Exhibit must be titled or captioned to assist the viewer to interpret the message. **\*NEW\*** Title, or caption, must be displayed on the front of the matted photo.
- Any edited images must be accompanied by a thumbnail print of the original image taped to the back of the exhibit.
- **CAMERA TYPES & DATA TAGS:** Youth are permitted to shoot on film, digital and/or cell phone cameras. The type of camera used must be included in project documentation. Youth may use automatic settings but should be able to find the metadata information on the photo to include in project documentation. Exhibit must have additional information (Data Tag) attached to the back of the photo/print. A Data Tag Template that can be printed and added to your exhibit can be found at the QR code below or by clicking [HERE](#).
  - **Data Tags include the following information:**
    - i. Camera/device used
    - ii. Aperture (F-stop)
    - iii. Exposure time (shutter speed)
    - iv. ISO (film/sensor sensitivity)
    - v. Lighting used (flash, artificial, sunlight, other)
    - vi. Photo editing software/application used (required for ALL edits and retouches except for cropping)
    - vii. Filters used (lens filters and or digital/software filter)
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 3 entries per class in classes 01-05**
- **Maximum of 2 entries per class in classes 06-10**
- **Maximum of 1 Open Class Entry (Class 11)**



### **Class 00: CLOVERBUD EXHIBITS**

**Class 01: SINGLE PHOTOGRAPHY TECHNIQUE-** Exhibit one matted photo which demonstrates your understanding of a technique learned from participating in a photography project. Identify the technique that was focused on. No photo editing allowed except cropping and red eye removal.

- Techniques include (but not limited to) simplification, filling a frame, rule of thirds, framing, contrast, lines and shapes, symmetrical balance, asymmetrical balance, depth and layering, exposure, white balance, triangles, and eye lines.
- List Techniques used in the description of your Entry Tag

**Class 02: TWO (2) PHOTOGRAPHY TECHNIQUES-** Exhibit one matted photo which demonstrates your understanding of 2 techniques learned from participating in a photography project. Identify the techniques that were focused on. No photo editing allowed except cropping and red eye removal. **\*This class is NOT eligible for NYS Fair.\***

- Techniques include (but not limited to) simplification, filling a frame, rule of thirds, framing, contrast, lines and shapes, symmetrical balance, asymmetrical balance, depth and layering, exposure, white balance, triangles, and eye lines.
- List Techniques used in the description of your Entry Tag

**Class 03: THREE (3) OR MORE PHOTOGRAPHY TECHNIQUES -** A single 8"x10" still-life photo that demonstrates understanding of 3 techniques learned from participating in a photography project. No photo editing allowed except cropping and red eye removal.

- Techniques include (but not limited to) simplification, filling a frame, rule of thirds, framing, contrast, lines and shapes, symmetrical balance, asymmetrical balance, depth and layering, exposure, white balance, triangles, and eye lines.
- List Techniques used in the description of your Entry Tag.

**Class 04: PHOTO EDITING SINGLE TECHNIQUE -** Single edited photo, apart from cropping or red eye removal, which demonstrates understanding of a single editing technique learned from participating in a photography project. Must identify which editing technique was focused on and what software was used to edit photo. Include a thumbnail of your original on the back.

- List Techniques used in the description of your Entry Tag

**Class 05: PHOTO EDITING TWO (2) OR MORE TECHNIQUES-** Single edited photo, apart from cropping or red eye removal, which demonstrates understanding of a combining no less than 2 editing techniques learned from participating in a photography project. Must identify which editing techniques were used and what software was used to edit photo. Include thumbnail of your original on the back.

- List Techniques used in the description of your Entry Tag

**Class 06: PHOTO STORY/COLLECTION -** A collection of 5-10 photos that have a connection, a relationship or tell a story. Photos may be edited or unedited and should demonstrate strong understanding of basic photography techniques practiced in Classes 01-05. Photos should demonstrate a relationship to one another, whether they represent similar objects, have a theme or tell a story. Photos should be mounted uniformly whether on one mat or individually. Include original thumbnails on the backs if photos are edited and list the techniques you utilized/focused on in the project.

**Class 07: PHOTOGRAPHY PORTFOLIO -** Exhibit includes at least 1 mounted print for display illustrating the best representation of your skills in photography along with a portfolio of 8-12 photos demonstrating your mastery of basic techniques. May choose to exhibit some edited and some unedited photos. Subjects do not need to be related. On each photo, identify two strong points and one area to improve. Other than piece you choose to exhibit mounted, you may exhibit the rest mounted in a portfolio.

## MULTIMEDIA DESIGN

**Class 08: VIDEO PROJECT – 4-H THEME -** Evaluators have limited viewing time. Exhibitor must provide viewing equipment for evaluation. Project can be a 30 second television spot, a documentary demonstrating 4-H activities, a narrative or dramatic group project by 4-H members or an informational presentation promoting 4-H. Project to feature a 4-H project or activity or promote 4-H. Videos longer than 10 minutes should include short “preview highlights” as a separate disc or file. Can be submitted as a DVD or jump drive. Must include instructions for opening/viewing. Software requirements included in supporting documentation. Evaluated on technical quality, organization, creativity and ability to communicate a message.

**Class 09: COMPUTER GRAPHIC DESIGN – 4-H THEME -** Use a computer graphic design program to create an 8.5"x11" or 11"x17" poster that promotes any aspect of 4-H. Programs that can be used include (but not limited to): Adobe InDesign, Illustrator or Photoshop, and Canva. Design must be computer generated – indicate which software program was used. Entry must use official 4-H clover (<https://nys4-h.org/logos-graphics>). If using graphics from internet, note source and permission to use. Evaluated on composition, typography, clarity of message, proper use of 4-H logo and imagery, and creativity.

**Class 10: WEBSITE -** Entry must include web page address (accessible online), program/software used to design website, website outline, and short description of the goals of your site and what it is meant to communicate to the visitor. Web page acknowledges NYS 4-H Youth Development/Cornell Cooperative Extension and other resources (both human and material) that provided the means for learning and skill development necessary to create the web page.

**Class 11: MULTIMEDIA DESIGN OPEN CLASS -** Any multimedia (video, web, computer based design) exhibit deemed by 4-H Educator to be worthwhile that falls outside categories described above, example; PowerPoint Presentations. *Exhibit requires prior approval of 4-H Educator.*

## **SECTION 28: HORTICULTURE**

Classes 01-32: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- Age, experience, and standards listed in related 4-H publications, as well as content and quality, considered in evaluating criteria.
- Project resource materials listed are for suggestions only. Use your imagination for other ideas. For more information and ideas, check the website: <http://www.hort.cornell.edu/4hplants>.
- Endangered species are not allowed in any exhibit.
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 1 entry per class or sub-class unless otherwise stated in the class.**

### **Class 00: CLOVERBUD EXHIBITS**

#### **Class 01: PRESERVED PLANT COLLECTIONS**

- Plants must be pressed, dry, mounted, and labeled. To press plant material, it is best to use method described in: Pressed Flower Pictures (1982), 141-IB-34, found at <http://dSPACE.library.cornell.edu/handle/1813/3267>, or as described by a person who has experience collecting plant material.
- A clear protective overlay is helpful for many, but not all, exhibits.
- Weeds and other specimens mounted green (not pressed) will not be evaluated.
- Collections of plants may be on one side of ONE PIECE of poster board or like material, 22 x 28-inches in size, or in notebook binders with single specimens on pages 8 ½ x 11-inches.
- Scrapbooks of accumulating years should have dividers between years. Current year's exhibit should be clearly marked. Current year exhibit will be judged.

- List sources used to identify plants and plant materials.

**A:** LEAF, TWIG (and fruit, flower, and seed, if possible) of ten or more ornamental trees.

**B:** LEAF, TWIG (and fruit, flower, and seed, if possible) of ten or more ornamental shrubs.

**C:** LEAF, TWIG, & ILLUSTRATION of fruit or nut - Ten or more fruit or nut plants.

**D:** TEN WEEDS - Common to lawns and flower beds.

**E:** TEN ANNUAL FLOWERS

**F:** TEN PERENNIAL FLOWERS

**G:** TEN WILDFLOWERS

**H:** TEN SEEDS (any single plant type, e.g., 10 ornamentals, 10 fruits, etc.)

- Clean and dried (not green). Seeds must be harvested by exhibitor.
- A picture of plant must accompany seeds.
- List growing conditions required.

**I:** MISCELLANEOUS COLLECTION - Entries will be judged according to similar project criteria.

#### **Class 02: HORTICULTURE SCRAPBOOK (Collection of plant pictures)**

- May be cut from magazines or garden center catalogs, illustrated by your own drawings, photographs, or photocopies. Write in front or back of scrapbook where your images came from if you did not make them yourself (Example: Pictures are from W. Atlee Burpee 2008 seed catalog).
- Each plant should be represented on its own 8 ½ x 11-inch page.
- Scrapbook will be worth more if the picture (or perhaps more than one picture) shows different stages of growth (fruit and leaf, vegetable and flower, flower and leaf).
- Fasten pictures with clear tape, paper glue, or rubber cement. Pages must be bound in notebook binder.
- County Exhibit Only: Scrapbook should contain a minimum of 20 plants with five from each of the four categories (Flowers & Indoor Plants, Fruits & Nuts, Ornamentals, Vegetables). Include common name, brief description, including size and zones.
- State Fair Eligible Scrapbooks: Must contain the specified plants for each category found in New York State Horticulture Study Guide for Youth at [hort.cornell.edu/4hplants/index.html](http://hort.cornell.edu/4hplants/index.html). Beginners must include the 15 plants specified from each group—flowers and indoor plants; ornamentals; fruits and nuts; and vegetables. Intermediates must include the 30 plants from each group. Advanced participants must include all 45 plants from each group.

**A:** BEGINNER HORTICULTURE SCRAPBOOK (1-3 YEARS)

**B:** INTERMEDIATE HORTICULTURE SCRAPBOOK (3-6 YEARS)

**C:** ADVANCED HORTICULTURE SCRAPBOOK (5 OR MORE YEARS)

**Class 03:** PLANT COLLECTION PHOTO RECORD BOOK - Photos must be taken by 4-Her. 20 photo minimum. Collection can be a combination of several types of plants, such as trees, shrubs, weeds, annuals, perennials, fungi, etc. Identify common and scientific names. List variety, growing requirements, location of plant, where photo was taken and identification sources.

**Class 04:** PROPAGATION EXPERIMENT

**Class 05:** BREEDING EXPERIMENT

**Class 06:** SOIL SCIENCE EXPERIMENT

**Class 07:** CULTURAL PRACTICES EXPERIMENT

**Class 08:** MISCELLANEOUS EXPERIMENT

*\*\*If you plan to complete an experiment entry, please email the 4-H Educator for additional information\*\**

### GARDEN ENTRIES

Offers an opportunity to display a garden item and gives participants an occasion to show the products of their gardening efforts.

- Exhibits that require it, must be grown by 4-Her in their individual, family, school, or community gardens, unless otherwise noted.
- Exhibits and awards will be evaluated based on standards below.
- Exhibit must be labeled with correct common name and variety name (i.e., snap beans, Blue Lake; or petunia, Red Picotee). Otherwise, awards will be downgraded.

**Excellent** - Clean; only very minor defects in general appearance. Best market size and quality; true to varietal characteristics. For exhibits with more than one specimen: not more than 10% variation in sizes for fruits and vegetables, and cut flowers; only slightly detectable variation, uniform in shape, color, and degree of maturity.

**Good** - Clean; slight defects in general appearance. Defective and unusable parts should not exceed 5%; good market size and quality. Exhibits with more than one specimen: not more than 25% variation in sizes for fruits and vegetables, and cut flowers; only slightly detectable variation in shape, color, and degree of maturity.

**Worthy** - Fairly clean; some defects in general appearance. Defective and unusable parts should not exceed 10%; fair market size and quality. Exhibits with more than one specimen - not more than 100% variation in sizes for fruits and vegetables, and cut flowers; noticeable variation in shape, color, or degree of maturity.

**No Award** - Dirty, serious damage apparent. Defective and unusable parts exceed 10%; unsatisfactory market size or quality. Exhibits with more than one specimen — more than 100% variation in sizes for fruits and vegetables; extreme differences in shape, color, or degree of maturity.

**Class 09:** VEGETABLES - State variety name on entry tag. **Maximum of 8 entries.**

- Beans, lima (5 green pods, edible beans)
- Beans, snap (Green, 5 pods OR Yellow, 5 pods)
- Beans, snap (Pole or vining type, 5 pods)
- Beans, green (Shell, 5 pods. Any variety including edible soy, Horticultural, Kentucky Wonder)
- Beans (Dry shelled, ½ cup in container. Dry field bean variety including mung, adzuki, fava)
- Beets (3, Tops trimmed to 1 inch. No green shoulders)
- Broccoli (1 head or bunch of small heads, 5 inches or more in diameter)
- Brussels Sprouts (1-pint basket)
- Cabbage (1 head, 2-4 pounds with 3-4 wrapper leaves. Any fresh market variety)
- Carrots (3, Tops trimmed to 1 inch. No green shoulders)
- Cauliflower (1 head, Leaves cut just above head)
- Celery (1 plant, Market quality, Roots off)
- Chard (1 plant, Roots and damaged leaves off)
- Chinese Cabbage (1 head)
- Chinese Cabbage (Loose leaf, Roots off, 1 plant)
- Corn, Sweet (3 ears, Husks removed completely, Shank trimmed to ½ inch, Display in transparent bag)
- Cucumbers (2 slicing types, 5 inches or longer, 2 inches or less in diameter)
- Cucumbers (3 pickling types, 3-5 inches)
- Cucumbers (5 pickling types, Less than 3 inches)
- Dill (Bunch of 6 seed heads, Tied or in transparent bag)
- Eggplant (1 large, Oval and oblong types such as Black Beauty, Black Magic, Black, Enorma, Dusky)
- Eggplant (2 small, slender and round types such as Easter Egg, Ichban, Long Tom, White Beauty)
- Endive (1 plant, Roots off, Good market size)
- Garlic (3 bulbs, Dried, Braided together or tops trimmed to 1 inch, Cleaned, Not peeled)

- Herbs (Any kind, Plant in pot or tied bunch)
- Herbs, dried (Show minimum of 1 tbsp. Exhibiting larger amount is acceptable. Herbs must be appropriately prepared for use)
- Kale (1 plant, Roots off)
- Kohlrabi (2, Tops and tap root trimmed to 2 inches)
- Leek (3 large, Trimmed)
- Lettuce, leaf (1 plant, Roots off, Good market size)
- Lettuce, head (1 plant, Roots off, Good market size)
- Muskmelon and Honeydew Melon (1, Good market quality)
- Mustard (1 plant, Roots off)
- Okra (4, 1-½ to 3 inches long)
- Onions, bulbs (3 tops trimmed to ½ inch, well cured and dried, Not peeled)
- Onions (6, Green bunching type, Tops on but trimmed evenly)
- Parsley (1 plant, Roots off, Good market size and quality)
- Parsnips (3, Tops trimmed to 1 inch)
- Peas (5 pods)
- Peppers (2, Large types such as Bell, Cubanelle, Italian Sweet)
- Peppers (3, Small types such as Banana, Hungarian Wax, Cherry, Jalapeno)
- Potatoes (3 tubers, 5-10 ounces)
- Potatoes (1 pint basket, Salt potato types, ¾ to 1-¼ inch in diameter)
- Pumpkin (1, ripe, Any variety)
- Radish (1 pint basket, Tops trimmed to ½ inch)
- Rhubarb (4 stalks, Tops trimmed)
- Rutabaga (1, Tops trimmed off)
- Shallot (3, Tops trimmed to ¼ inch, Dried, Not peeled)
- Spinach, common (½ pound in transparent bag)
- Spinach, New Zealand (½ pound, Bunch or tender tips 3-6 inches, Tied or in transparent bag)
- Squash, summer (2, Young, Skin tender, Such as zucchini, yellow, scallop)
- Squash, winter (1, Any large types such as Hubbard, Delicious, Banana)
- Squash, winter (2, Any small types such as Buttercup, Butternut, Spaghetti, Table Queen, Golden Nugget)
- Squash (1, Soft and round stem, Such as Big Max, Big Moon, Mammoth)
- Sweet potatoes (3 roots, Any variety)
- Tomatoes (3, Ripe, Stems off, Medium and large fruited varieties including Roma types)
- Tomatoes (Cherry ripe, 1 pint basket, stems off, also Presto and small fruited types)
- Turnips (3, Tops trimmed to 1 inch)
- Watermelon (1 mature, Market size)
- A collection of 3 related types, such as 3 varieties of pepper, or 3 vegetables that appear in an ethnic cuisine
- Miniature Vegetables (6 of one type, Harvested at small or baby stage)
- Ornamental Vegetables (3, Such as miniature pumpkins, gourds, decorative corn; Ornamental kale, 1 specimen)
- Heirloom Vegetables (Any variety from the Heirloom Garden bulletin, Exhibited in same manner as other vegetable classes)
- Miscellaneous (Any other vegetable not listed, Display same number of specimens as similar crop listed)

**Class 10: VEGETABLE ART** - Be creative with your vegetables. May use purchased vegetables. **Maximum of 2 entries.**

- Vegetable character
- Sculpture
- Geometric design
- Neatness of assembly
- Number of Horticulture products used
- Imaginative use of plants and plant materials
- Overall appearance

**Class 11: CUT FLOWERS - *Maximum of 8 entries. Each entry must be a different flower.***

State variety name on entry tag. Consist of 3 stems with the same color blooms, except as noted:

- Gladiolus - ONE spike with at least 12-inch stem & other large spikes.
- Roses - ONE stem of the type entered.
- Dahlias - THREE blooms of one color, or ONE bloom if over 6 inches.
- Any bloom 6" or larger – show ONE specimen.
- Stems should be eight inches long, except where type of flower makes this impossible.
- Flowers that do not last as cut flowers (daylilies, hollyhocks, impatiens, portulaca, etc.) may not be entered.
- Blooms of weeds, wildflowers, and shrubs will not be evaluated.
- You must provide your own container.
  - Asiatic Lily (one stem)
  - Aster (annual)
  - Bachelor Button
  - Calendula
  - Carnation
  - Chrysanthemum (any form)
  - Cosmo
  - Cleome
  - Dahlia
  - Daisies
  - Delphinium
  - Flowering Tobacco
  - Gladiolus
  - Larkspur
  - Marigold
  - Nasturtium
  - Ornamental Grass
    - (foliage & fully developed seed head)
  - Pansies
  - Petunia
  - Phlox (annual)
  - Rose
  - Rudbeckia
    - (Coneflowers, Black-eyed Susan)
  - Snapdragon
  - Statice (fresh, not dried)
  - Stock
  - Strawflower (fresh, not dried)
  - Sunflowers
  - Sweet Peas
  - Viola
  - Zinnia
  - Zinnia, large, over 4"
- Miscellaneous: any other cut flower not listed, annual or perennial, display the same number of specimens as similar crop listed.
- Collection: A collection of 6 (six) garden cut flowers, not used in other cut flower entries. One (1) specimen of each variety. Flowers named and variety listed. No wildflowers, weeds, or shrubs.

**Class 12: INDOOR GARDENING**

- **Maximum of 2 entries**
- Please list plants and plant materials used.
- All items should follow recommended guides of balance, design, proportion, and harmony.
- No artificial or plastic plant materials allowed.
- Ribbon and bows as part of the design are allowed.
- Entries must be grown in display container prior to June 1st of the current year.
  - Dish garden
  - Terrarium or closed ecosystem – no endangered species allowed.

**Class 13: INDOOR GARDENING: HOUSE PLANTS**

- **Maximum of 2 entries**
- Houseplants must be a single stem or crown in proportional container.
- No artificial or plastic plant materials allowed.
- Please list plant name.
- Entries must be grown in display container prior to June 1st of the current year.
  - Potted house plant - flowering
  - Potted house plant - foliage
  - Potted house plant - vine
  - Potted house plant - hanging container. More than 1 plant accepted.
  - Miniature house plant - 2 1/4" - 3" pot maximum. Example - miniature African violet.

**Class 14: CONTAINER GARDENS (Includes "Bucket Brigade" and Fairy Gardens)**

- **Maximum of 2 entries**
- No artificial or plastic plant materials allowed.
- Appropriate container and plant combinations.
- Include a 3x5 card listing all plants included in the container and how to care for them.
- Entries must be grown in display container prior to June 1st of the current year.

### **Class 15: FRUITS AND NUTS**

- **Maximum of 2 entries**

- State variety name on entry tag.
- All fruits and nuts must be cared for by exhibitors.
- Nuts grown in the previous year may be entered.
  - Apples: 3, ripe, any single variety
  - Apricots: 5, ripe
  - Blueberries: 1 pint
  - Cherries: 1 pint basket, with stems, any single variety
  - Elderberries: attached to cluster, 1 quart
  - Grapes: 1 bunch
  - Nectarines: 4, ripe
  - Peaches: 4, ripe
  - Pears: 3 ripe, with stems, any single variety
  - Raspberries: ½ pint, any single variety
  - Strawberries: 1 pint, caps on
  - Other: minor fruits such as quince or persimmon, 4, ripe
  - Miscellaneous: any fruit not listed, display same number of specimens as similar crop listed
  - Nuts: all ripe, dry, unshelled, 1 pint, any single variety
  - Collection: a collection of 3 types, such as 3 different varieties of apples

**For classes 16-17 - May use purchased, home-grown, or wildflowers.**

### **Class 16: FLORAL DESIGN**

- **Maximum of 2 entries**

- List plants used.
- Dry or fresh flower corsage in transparent bag.
- Table arrangement of live or dry plant material - not over 12" in diameter and under 8" in height.
- Holiday decoration of live, dried, or natural plant materials - no more than 18" in diameter or 24" long.
- Plaque of dried or pressed plant material; includes other craft projects made with real plant material (e.g. floral pictures).
- Large arrangement of live or dried plant material – for arrangements over 12" in diameter and over 8" in height.

### **Class 17: MINIATURE ARRANGEMENT**

- **Maximum of 2 entries**

- Arrangement of fresh or dried flowers.
- Less than 6" in height and diameter – including container.
- List plants used.

### **HORTICULTURAL METHODS**

This division gives young people an interesting, different approach to growing plants. This enhances gardening skills and encourages the participant to think creatively.

- Because of the difficulty of reproducing some of the horticultural methods for exhibiting purposes, a poster or poster series format may be used.
- Use heavy poster paper (14"x22" minimum) as a background.
- Glue or tape photos and diagrams, along with sheets of white paper that include your description within these sections:
  - a. Introduction
  - b. Growing Method Used
  - c. What You Learned or Discovered.
- Instead of a poster, an exhibit of the method itself (such as a small hydroponics set-up) can be displayed.

### **Class 18: HYDROPONIC GARDENING**

### **Class 19: SEASON EXTENDER METHODS**

### **Class 20: PROPOGATION**

**Class 21: MISCELLANEOUS:** Any horticultural methods not listed. Entries judged according to similar project criteria.

## LANDSCAPE PICTURES & PLANS

This division is a category in which youth can display what they have learned about the elements of design and how plants can be grouped effectively for ornamental or edible purposes. It also offers an opportunity to display their garden record keeping.

- All collections, pictures, and plans will be enhanced by a clear, protective overlay.
- Markers, colored pencils, or paints may be used to embellish the landscape plan.
- For classes 23-27 & 29, indicate direction north on plan.

### **Class 22:** HOME GROUNDS LANDSCAPE PHOTOGRAPHIC ALBUM

- Must have at least six "before" and six "after" pictures of current year's work.

### **Class 23:** PLAN OR MAP OF HOME GROUNDS

- Drawn to scale.
- Show things as they were at beginning of project.
- A second map, with suitable and necessary notes, showing changes and improvements made.
- In different colors, show changes and improvements yet to be made.

### **Class 24:** PLAN OR MAP OF APARTMENT DWELLING

- Drawn to scale, showing grounds as they are currently.
- A second map, showing proposed changes that would improve existing grounds.
- Where ground space is unavailable, a terrace or porch garden of containerized plants can be depicted.

### **Class 25:** PLAN OF ANNUAL AND/OR PERENNIAL FLOWER GARDEN

- Show varieties, name, placement, height, and color.
- Use scale no smaller than 1 inch equals 4 feet.

### **Class 26:** PLAN OF HOME ORCHARD (fruit tree and/or berry crops)

- Show varieties, name, placement, height, and time of fruiting.
- Use scale no smaller than 1 inch equals 4 feet.
- Exhibit should indicate current year's work. Current year's work will be judged.

### **Class 27:** PLAN OF HOME VEGETABLE GARDEN

- Show varieties, name, placement, height, and approximate harvest times.
- Succession of plants may be indicated by a tracing paper overlay.
- Use scale no smaller than 1 inch equals 4 feet.

### **Class 28:** PLAN OF COMMUNITY SERVICE BEAUTIFICATION PROJECT

### **Class 29:** GARDEN RECORD BOOK

- List plants chosen and varieties.
- List reason for selection.
- Garden design sketch, including lay-out, dimensions, and spacing.
- Photos showing before and after are helpful.

## FIELD CROPS

### **Class 30:** FIELD CROPS - *Maximum of 5 entries*

- Sample of hay must be well cured, not moist.
- Grasses, legumes, and silage crops will be judged on the basis of their values as forage or silage.
- Exhibits should be displayed in either tightly packed, clean baskets or slice of bale with appropriate dimension 8x10x14, or as described.
  - Field Corn - 3 ears
  - Oats - 1 peck
  - Wheat - 1 peck
  - Any other small grains
  - Corn Silage - qt. jar with mixture names on entry card
  - Haylage - qt. jar with mixture names on entry card
  - Alfalfa
  - Birdsfoot trefoil
  - Clover
  - Timothy
  - Mixed hay - State mixture on entry card
  - Miscellaneous entries will be judged according to similar project criteria.
  - Feeds suitable for a 4-H animal project. Project must be specified, feed sampler attractively displayed on a board. Nutritional value and use of each sample must be described.

### **Class 31:** EGGS FROM EXHIBITOR'S FLOCK - One dozen white or colored eggs. **This class is NOT eligible for NYS Fair.**

### **Class 32:** OPEN CLASS - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above.

- Exhibit requires prior approval of 4-H Educator.

# **SECTION 29: ENVIRONMENTAL EDUCATION**

Classes 01-07: Excellent 5 • Good 4 • Worthy 3

## **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- An essay is no longer required for each exhibit, however, be prepared to share with the judge some of the following information: why your project was interesting to you, it's relevance to natural resources and/or environmental education; detailed information/lessons you learned; and how the project might be used to help others learn about/appreciate the natural world. For example, if you built a bluebird box, explain what about the box makes it a good home for bluebirds, or observations/plans you might have to learn about bluebird behavior. Also, describe how the project will be used. If the project story does not accompany the exhibit, the exhibit will not be considered complete and will be evaluated accordingly.
- Exhibits showing processes, products, skill development, and relevance to environmental/natural resource issues are strongly encouraged. Overly simplistic or non-interpretive exhibits will receive less recognition.
- Exhibits will be evaluated on the basis of their content, quality of expression, and presentation. Creativity is encouraged as is display of materials showing observational skills, e.g. journals or sketchbooks. Age, experience, and standards listed in appropriate 4-H publications will be included in the judging criteria.
- 4-H curriculum and information can be found on the NYS 4-H Resource Directory at <http://www.4-hdirectory.org/> and through Cornell Cooperative Extension in the Department of Natural Resources at <http://www.dnr.cornell.edu/>. 4-H publications that appear to be available through Cornell Cooperative Extension in the Department of Natural Resources are available by calling 607-254-6556 or emailing [cce-nat-res@cornell.edu](mailto:cce-nat-res@cornell.edu).
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-06**
- **Maximum of 1 Open Class Entry (Class 07)**

## **Class 00: CLOVERBUD EXHIBITS**

### **Class 01: ENVIRONMENTAL EDUCATION**

- Nature Trails: e.g. Display of 4-H constructed nature trails or observations made along another nature trail.
- Geology: Simple collections must include the specimens' names, dates of collection, specific site(s) of collection (distance and direction to nearest town, county, state or province), and collector's name for 15 specimens. Inclusion of field journals is strongly encouraged and identification criteria must be completely and clearly defined. Exhibits showing evolutionary histories, adaptations of fossil organisms, vertical or horizontal studies of strata, or similar studies are encouraged.
- Field Identification Projects: Please note that wildflowers are evaluated in Section 28 – Horticulture, Fungi, in Section 30 – Plant Pathology, and Insects in Section 31 – Entomology. Collections of preserved specimens, photographs or sketches properly labeled and showing identification criteria may be displayed for any habitat in New York. Consult your local Department of Environmental Conservation for guidelines and permission in collecting specimens from the wild. Consult Field Guides Made Easy for additional activities and ideas.

### **Class 02: FISHERIES & AQUATIC RESOURCES**

- Exhibits may be displays or records of any Fisheries and Aquatic Resources related activity including, but not limited to, fishing techniques, aquatic sampling methods, aquatic insect ecology, habitat improvement or fisheries management and biology. Other fishing projects may be found in 4-H publications.
- Water Monitoring – project ideas may be found in Water Worlds, Water Wise, Pond & Stream Safari.
- County or self-initiated projects related to fish or fishing, including mariculture, aquaculture, commercial fisheries, sport fisheries or related equipment, skills or observations.

### **Class 03: FORESTRY**

- Displays and presentations may be based upon, but are not limited to, the following projects: Know Your Trees, Timber Management for Small Woodlands (IB 180); Wildlife and Timber from Private Lands: A Landowners Guide to Planning (IB 193); Woods of New York; Trees: Dead or Alive, Know Your Tree Diseases; Maple Syrup Production for the Beginner; and other forestry exhibits based upon national, regional, county or self-initiated projects.

### **Class 04: RESOURCE-BASED RECREATION**

- Shooting Sports – any exhibit or record based upon content of the NYS Shooting Sports Programs or any of the New York State DEC certification programs.
- Other Outdoor Recreation – Exhibits based upon related outdoor recreation activities, e.g. orienteering, cross-country skiing, snowshoeing, wilderness camping, or outdoor cookery.

### **Class 05: WILDLIFE**

- Bird Study – Consult Bluebirds of New York, Birds of Prey, Introduction to Bird Study, or any other bird materials for exhibit ideas. Bluebird houses will be judged using the criteria from Bluebirds of New York. Please note, if a bluebird house is completed as a Wood Science project, it should be entered in Section 32 – Wood Science.
- Habitat Improvement – Consult Wildlife Habitat Enhancement, Enhancement of Wildlife on Private Lands, and/or Managing Small Woodlots for Wildlife for exhibit ideas.
- Trapping Furbearers – Exhibits based upon the NYS DEC Trapper Training Program are acceptable, as are displays of equipment, pelt preparation, and discussion of the role of trapping in wildlife management.
- Other Wildlife Projects – Exhibits based upon New York’s wildlife resources, Environmental Awareness: Wildlife, Managing Small Woodlots for Wildlife; Wildlife Discovery, New York’s Wildlife Resources (fact sheets), and Wildlife in Today’s Landscapes. County projects are acceptable. A good source of potential projects is the 4-H Forestry and Wildlife Invitational.

### **Class 06: REUSE & RECYCLING**

- Exhibits based on recycling or composting projects in the home or community. • Clothing, crafts, and other items created using post-consumer waste materials. Consult Composting: Wastes to Resources; Wastewise; Woodsy’s Resource Goldmine, Recycling in Your School Makes Good Sense; or Recycling: Mining Resources from Trash or Composting in the Classroom for exhibit ideas.

**Class 07: OPEN CLASS** - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.*

## **SECTION 30: PLANT PATHOLOGY**

Classes 01-05: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-03**
- **Maximum of 1 Open Class Entry (Class 04)**

### **Class 00: CLOVERBUD**

#### **Class 01: LEAFSPOT COLLECTION BOOKLETS**

- As described under Activity 1 in Know Your Plant's Disease and/or Activity 3 in Know Your Tree Diseases, leaf disease notebooks exhibiting a minimum of 12 different diseased plants with at least 6 different fungal and/or bacterial diseases should be included. Example: Powdery mildew fungi may be included more than once if on different hosts, but the remaining samples must represent at least 5 other individual disease issues. Label each plant sample with your name, the date collected, plant name, location collected (town, county and state), and briefly describe the symptoms observed.
- Include a common name for each disease (such as: powdery mildew, leaf rust, fungal leaf spot, bacterial leaf spot, leaf blight, anthracnose, ring spot, etc.).
- Include a specific disease name for at least one of the samples, such as “tar spot” on maple caused by a *Rhytisma* sp.

#### **Class 02: PEST MANAGEMENT ON VEGETABLES OR ORNAMENTAL GARDEN PLANTS PROJECTS**

- Must exhibit a 4-H member’s experience in and knowledge of this subject matter.
- Exhibit should include a poster display showing the layout of your vegetable or ornamental garden; photographs, drawings, tables and other visual aids may be used.
- A record book may be presented indicating dates on which problems were observed, treatment were utilized and observations were made as to the effectiveness of these treatments.
- Include specific steps taken to manage pests within the past year or two.
- Information on preventative treatments or management practices should also be included.
- This project should attempt to teach those who examine it the principles of pest management.
- Include specific information on at least five (5) pest problems identified and for which one or more management practices were used.
- Evaluation will be based on the member’s understanding of the subject and effectiveness of the poster as a teaching aid.

### **Class 03: MUSHROOM COLLECTOR'S JOURNAL**

- This category is designed for the beginner mycologist.
- Although preservation of dried fungal specimens in the manner described in Fun With Fungi is encouraged, this project does not require that fungi be submitted as a collection of dried specimens. However, preservation of your fungi is strongly encouraged for future reference or for possible submission to the Cornell Herbarium.
- This project should include detailed notes about each fungal specimen, photos and spore prints.
- Six fungal specimens from different genera are required.
- More detailed instructions and forms for use with this project may be found online at:  
<http://plantclinic.cornell.edu/mushroomjournal.html>

**Class 04: OPEN CLASS** - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.*

## **SECTION 31: ENTOMOLOGY**

Classes 01-09: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- Insect specimens must be properly mounted and displayed and have complete collection data.
- Suggested display case described in 4-H Entomology Project Guide (available through your Extension 4-H Educator) or museum size insect drawers or polystyrene insect cases covered with clear plastic sheets.
- Exhibits incorrectly prepared will not be evaluated.
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-07.**
  - **For entries in classes 01-05, choose the class that corresponds with the number of years you have participated in the project. You should only have entries for one class in classes 01-05**
- **Maximum of 1 Open Class Entry (Class 07)**

### **Class 00: CLOVERBUD**

#### **Class 01: FIRST YEAR PROJECT EXHIBITS**

- Must include a minimum of 20 specimens representing 5 insect orders.
- Classification need not be taken further than order names.
- Insects should be pinned properly and the wings of all butterflies and moths must be spread

#### **Class 02: SECOND YEAR PROJECT EXHIBITS**

- Must include a minimum of 40 specimens representing 9 insect orders.
- Twenty specimens must have been collected during the current year.
- Twenty specimens must also be identified to common name with the name written on a label and pinned separately near the specimen (easily visible, to aid in judging):
  - Addition of scientific names is optional in this class.
  - Insects should be pinned properly and the wings of all butterflies and moths must be spread and at least one small insect must be mounted on a point or minuten pin.

#### **Class 03: THIRD YEAR PROJECT EXHIBITS**

- Must include a minimum of 60 specimens representing 12 orders.
- Thirty specimens must have been collected during the current year.
- Thirty specimens must be identified to common name.
- At least 5 specimens (representing at least five families) must be identified to family.
- Scientific names (genus and species) should be included wherever possible, although insects from some orders will be difficult to identify to this level; common names should be placed on a separate label pinned near the specimen as in Class No. 02.
- Insects should be pinned properly and the wings of all butterflies and moths must be spread and at least two small insects must be mounted on points or minuten pins.

#### **Class 04: FOURTH YEAR (AND BEYOND) PROJECT EXHIBITS**

- Must consist of general collections.
- Must include 80 specimens representing at least 12 orders.
- Forty specimens must have been collected during the current year.
- Forty specimens must be identified to common name.
- At least 10 specimens (representing at least 10 families) must be identified to their family. Scientific names should be included wherever possible. Common names should be placed on a separate label, pinned near the specimen as in Class No. 02.
- Proper mounting (pinned properly, wings of Lepidoptera spread, two small insects on points or minutens) will be strongly emphasized.

#### **Class 05: ADVANCED INSECT COLLECTIONS**

- For advanced collections Riker mounts may also be used.
- Complete collection data should accompany all exhibits (where collected, date, and by whom?); can be placed on back of exhibit as long as the evaluator can tell which label goes with each specimen. If you exchange specimens, label as completely as possible, giving location (country, state or province, nearest town), date collected; name of collector; plus any ecological information available such as plant or insect host, habitat, etc.
- Imagination and individuality are encouraged.
- The rules for mounting, as set up for general collections, do not have to be followed, if, by doing so, the advanced collection can be enhanced. The scientific aspects and educational value, appearance, quality and arrangement will be evaluated.
- The Exhibitor Information Statement should contain educational value to you (what you learned) as well as what you see the educational value to others to be.

#### **Class 06: SINGLE COLLECTIONS** (Prepared by the combined efforts of a Livingston County 4-H Club)

- Exhibit should be entered in Department 47 Class 07
- May be any kind of insect collection or may represent a group activity that can be presented as an exhibit.
- Regional insect collections prepared for eventual donation to a museum may be entered in this class if prepared by more than one person; otherwise these should be entered under Class 04.
- Evaluation will be based on the number of members and completeness of exhibit.

#### **Class 07: LIVING INSECT EXHIBIT**

- Exhibits must convey an educational message to the public and/or the educational opportunities in 4-H work in the field of Entomology.
- Live educational exhibits are encouraged. Possible exhibits including living adult butterflies, butterfly chrysalides from which the adults are emerging, caterpillars, ant farms and aquatic insects in water tanks. Showing of a living exhibit requires that the exhibitor be on hand to care for the needs of his or her "livestock" daily.
- Exhibits will be evaluated on: educational value; appearance; quality and arrangement.
- Those planning to prepare exhibits should first make arrangements with the 4-H Educator.
  - If the exhibit is selected for NYS Fair, there may be additional transportation and care requirements. The 4-H Educator will also need to obtain approval from the NYS Fair 4-H Entomology Superintendent.

**Class 08: OPEN CLASS** - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.*

## **SCIENCE, TECHNOLOGY, ENGINEERING, & MATHEMATICS SECTIONS**

#### **General Guidelines:**

- The Number of years you have been participating in the project and two (2) things learned **MUST** be written on the back of your entry tag.
- Articles in this section must be made and selected according to standards from project curriculum, State 4-H Club Management and Volunteer Leader Handbook plus CCE Risk Management Guidelines.
- Articles in this section must have been made and selected during the current project year.
- If power tools are used by youth in making projects, youth must be 12 years or older.
- For construction project, with manufactured components see Section 34.
- Birdhouses entered in wood science classes will be evaluated under wood science.
- Bring supplies list and directions for each item.
- *If a class or sub-class is entered more than once, exhibits should be somewhat different from each other.*
- **Please see sections for class/sub-class entry limit**

## **SECTION 32: WOOD SCIENCE**

Classes 01-06: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-05.**
- **Maximum of 1 Open Class Entry (Class 06)**

### **Class 00: CLOVERBUD**

**Class 01: HAND TOOL DIVISION** - Project that was cut out, assembled, and finished with hand tools only.

**Class 02: POWER TOOL DIVISION** - Project partially or totally completed with power tools. *For ages 12+.*

### **Class 03: KIT DIVISION**

- Project that is made from materials precut by an outside resource (i.e., CCE office, commercial supplier or woodworking leader), but is assembled and finished by the exhibitor.
- Judges will place emphasis on the quality of workmanship performed by exhibitor.
- No commercial names on exhibit.

**Class 04: RECLAIMED LUMBER** - Must state origin of lumber/wood used. Project will be evaluated according to wood working standards.

**Class 05: RECYCLED WOOD PROJECTS** - Made from pre-existing items made into a new usable form (ex. headboard into a bench). Project will be evaluated according to wood working standards.

**Class 06: OPEN CLASS** - Judge will place emphasis on quality workmanship by exhibitor and the intended use of the project. Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.*

## **SECTION 33: ELECTRICAL SCIENCE**

Classes 01-03: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01 & 02**
- **Maximum of 1 Open Class Entry (Class 03)**

### **Class 00: CLOVERBUD**

### **Class 01: ELECTRIC DIVISION**

- Project such as a trouble lamp, test lamp, portable bench light, extension cords, pin-up or study lamp, or the rewiring of an old lamp is acceptable.
- Tension restraint device must be in place. Where appropriate, Underwriters Knot should be used, especially in lamp sockets.
- Due to safety code compliance, molded polarized and/or prefabricated cords with polarized plugs; where applicable are allowed.
- Lamps without bulbs or shades will not be considered complete and will be evaluated accordingly.
- Projects involving both woodworking and electrical tasks will be evaluated on the merits of both.

### **Class 02: ELECTRONICS DIVISION**

- Project utilizing principles and construction procedures relating to electronics is acceptable.
- Projects will be evaluated on the basis of soldering and connection techniques, neatness of assembly, and other assembly procedures for electronic projects.
- Projects must be hand wired and no breadboard kits will be accepted.
- Project must be operable (i.e. contain all necessary batteries).

**Class 03: OPEN CLASS** - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* **This class is NOT eligible for NYS Fair.**

## **SECTION 34: ROCKET PROGRAM**

Classes 01-03: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-02**
- **Maximum of 1 Open Class Entry (Class 03)**

**Class 00: CLOVERBUD****Class 01: JUNIOR DIVISION**

- Any rocket made in a Rocket Program either from a kit or non-kit materials and totally assembled and finished by a youth 13 years of age or younger.
- Evaluators will place emphasis on proper kit assembly and finishing.

**Class 02: SENIOR DIVISION**

- Any rocket made from non-kit materials and totally constructed and finished by a youth 14 years and older.
- Emphasis placed on proper construction techniques and finished project.
- Kits may be used when incorporated with other materials to meet the requirements of an Educational Display.

**Class 03: OPEN CLASS** - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* **This class is NOT eligible for NYS Fair.**

## **SECTION 35: CONSTRUCTED PROJECTS WITH MANUFACTURED COMPONENTS**

Classes 01-05: Excellent 5 • Good 4 • Worthy 3

**General Guidelines**

- Use of any manufactured components is acceptable. Examples include, but not limited to Legos, K'nex, Brio, Mechano, etc.
- Exhibits should demonstrate skills related to engineering, architecture and art such as design, following instructions, three-dimensional thinking, design modifications, problem solving, creativity, architecture, and art.
- Judging will be based on completion, complexity, presentation and explanation of design, understanding of principles and visual presentation. Be prepared to discuss the design process including difficulties, interesting elements, play value as well as steps to improve the model.
- Diagrams are REQUIRED. Please include the following:
  - Name of youth
  - Title of exhibit
  - Number of pieces (approximate with 25 pieces)
  - Complexity level - Use a self-assessment: Easy, Medium or Complex
  - Diagram of design - Can be photocopy (for kit), hand drawn or computer generated. Be sure to label major parts of your diagram, including moving parts and scientific components.
- You may want to consider protection for your exhibit during fair week. An inverted glass aquarium or shoebox with clear plastic can protect your exhibit while allowing the public to see it.
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-04**
- **Maximum of 1 Open Class Entry (Class 05)**

**Class 00: CLOVERBUD****Class 01: KIT**

- Ages 8-13 only.
- Exhibits must differ significantly.

**Class 02: ORIGINAL MODEL**

- Exhibits must differ significantly.

**Class 03: WORKING MODEL DEMONSTRATING A MECHANICAL SCIENCE CONCEPT**

- Must be original design - no kits.
- Concepts may include level arms, gears, pulleys, friction, belts, airfoils, catapults, load bearing bridges and beam. Energy transfer, stress analysis, Newton's Laws, gravity, etc. are acceptable. Be prepared to discuss the scientific principles of your design with the judge.

**Class 04: TRANSPORTATION DESIGN**

- Applies transportation pieces such as Brio in which youth design a transportation system (road, railroad). Must include a schematic of system drawn to scale with legend and demonstrate a fully developed concept, clear details, completeness of system and creativity.

**Class 05: OPEN CLASS** - Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* This class is NOT eligible for NYS Fair.

## **SECTION 36: 3-D PRINTING**

Classes 01-03: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- 3-D printing uses plastic or other materials to build a 3-D object from a digital design. Youth may use original designs or someone else's they have re-designed in a unique way. Youth must bring their finished printed object (we cannot print objects at Fair). Exhibits will be judged based on the complexity of the design and shape. Must include the following:
  - Software used to create 3-D design.
  - Design or, if using a re-design, the original design and the youth's design with changes.
  - Orientation that the object was printed.
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-02**
- **Maximum of 1 Open Class Entry (Class 03)**

### **Class 00: CLOVERBUD**

### **Class 01: 3-D PROTOTYPES**

- 3-D objects printed as part of design process for robot or other engineering project.
- Must include statement of what design question the prototype was supposed to answer and what was learned.

### **Class 02: 3D UNIQUE OBJECTS**

- 3-D objects printed for their own sake.
- May be an art design, tool, or other object.

**Class 03: OPEN CLASS:** Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* **This class is NOT eligible for NYS Fair.**

## **SECTION 37: COMPUTER SCIENCE**

Classes 01-05: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines**

- All exhibits must include something visual, such as a poster or printed copy of a digital presentation, which will remain on display during the fair. Electronic equipment will only be used during the 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 youth have created.
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-04**
- **Maximum of 1 Open Class Entry (Class 05)**

### **Class 00: CLOVERBUD**

### **Class 01: BEGINNING PROGRAMMING**

- Exhibit a simple program using Scratch (or other simple graphic programming language). Should include 8 different commands including looping and getting input from keyboard and mouse.

### **Class 02: INTERMEDIATE PROGRAMMING**

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

### **Class 03: ADVANCED PROGRAMMING**

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

### **Class 04: APP DEVELOPMENT**

- Exhibit an original mobile app. Describe the purpose of the app and what inspired you to create it in the exhibit information statement

**Class 05: OPEN CLASS:** Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* **This class is NOT eligible for NYS Fair.**

## **SECTION 38: ENGINEERING**

Classes 01-03: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines:**

- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-02**
- **Maximum of 1 Open Class Entry (Class 03)**

### **Class 00: CLOVERBUD**

### **Class 01: ENGINEERING EDUCATIONAL DISPLAYS**

- May be a series of posters and a 3-D exhibit related to an engineering science project. Topics may include (but not limited to) engine parts or bicycle parts display boards, electric circuit boards, electric quiz games, safety rules for bicycling or working with wood or electricity. Entry will be evaluated on purpose or principle idea, effectiveness in illustrating idea, appearance, arrangement, and description of display.

### **Class 02: RELATED ENGINEERING PROJECTS**

- Any article made as part of a directly related Engineering Science project, such as metal working, welding, cardboard carpentry, and safety items and not included in other Sections 32-37. Counties may enter only ten articles in this class. Kits are not acceptable for youth ages 14 years and over.

**Class 03: OPEN CLASS:** Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* **This class is NOT eligible for NYS Fair.**

## **SECTION 39: MAKER/TINKER**

Classes 01-04: Excellent 5 • Good 4 • Worthy 3

### **General Guidelines**

- Include STEM principles. All exhibits must include something visual which will remain on display during exhibition. Maker/Tinker project should communicate what problem is being solved or what new idea was created. Include a brief description of the exhibit that shows how the project uses materials to create something that is a contemporary, useful and unique design. It is also important to explain what skills were developed while creating the product. Expensive electronic or other equipment will only be used during judging time and will not remain on display during entire fair.
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-03**
- **Maximum of 1 Open Class Entry (Class 04)**

### **Class 00: CLOVERBUD**

### **Class 01: MAKER/TINKER INVENTIONS**

- Exhibits should display how youth used the design process to bring their idea and invention to life. Exhibit may be the item the youth has created or a notebook, poster or other display that depicts their project. Inventions may include elements from kits such as Arduino or Little Bits. Computer coding may be written by the exhibitor or someone else's code the exhibitor has modified. Exhibitor should cite the sources of any designs or codes they tinkered with to create their invention. Examples must include re-programming a toy to do something different or adding circuitry (lights, sounds, etc.) to an existing item like a sweater. Ideas can be found at sites like <http://makezine.com/>, <http://www.instructables.com>, <http://makered.org/youngmakers/>, and <http://tinkering.exploratorium.edu/>.

### **Class 02: JUNK DRAWER ROBOTICS**

- All exhibits should be original designs made from everyday objects and materials. Exhibits with purchased kits will not be accepted. Robots should be designed to carry out a series of at least 3 actions automatically to accomplish a task. Examples are included in the 4-H Junk Drawer Robotics curriculum or Rube Goldberg Machine contests.

### **Class 03: DIGITAL CREATIVE DESIGN PROJECTS**

- Items made using exhibitors original design idea/artwork incorporated onto/within a practical object, device (i.e. mug, clothing, wearable art, utensil, etc.) or other traditionally framed creative art display. Must be created by exhibitor using digital software/computer aided software. Providing an online weblink to your artwork and/or your design process (i.e. portfolio, timelapse, video, etc.) in the description is encouraged.

**Class 04: OPEN CLASS:** Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* **This class is NOT eligible for NYS Fair.**

## SECTION 40: GEOSPATIAL SCIENCE

Classes 01-07: Excellent 5 • Good 4 • Worthy 3

### General Guidelines

- Exhibits show skills and knowledge learned through 4-H GPS and GIS projects.
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-06**
- **Maximum of 1 Open Class Entry (Class 07)**

### Class 00: CLOVERBUD

### Class 01: GIS MAPS

- Maps made using ESRI (Environmental Systems Research Institute, Inc.) Arc GIS software or other mapping software. Criteria and Guidelines for Community Mapping Projects can be found on NYS 4-H webpage. GIS map exhibits may be selected for display competition sponsored by NIFA and National Geographic Society.

### Class 02: GIS OR GPS PROJECT OR ACTIVITY

- May be undertaken by individual or group. Exhibit may be in form of project record book, photo documentation, video, CD, DVD, etc. Exhibit must include project report documenting statements of purpose and outcome of project activity.

### Class 03: STORY OR OUTLINE OF 4-H GIS OR GPS PROJECT

- Including photos, purpose of activity, and summary of results.

### Class 04: COMMUNITY SERVICE/YOUTH COMMUNITY ACTION MAPPING PROJECT

- A mapping or GPS project built around a specific community issue or project.

### Class 05: EDUCATIONAL POSTER EXHIBIT

- Displaying 4-H GPS or GIS activities.

### Class 06: PUBLIC PRESENTATION ON 4-H & GEOSPATIAL SCIENCES

**Class 07: OPEN CLASS:** Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* **This class is NOT eligible for NYS Fair.**

## SECTION 41: RENEWABLE & SUSTAINABLE ENERGY & CLIMATE CHANGE

Classes 01-03: Excellent 5 • Good 4 • Worthy 3

### General Guidelines

- Educational exhibits/display(s) describing your 4-H project work done in areas of Renewable Energy (solar, wind, geothermal, biofuels, hydro-electric); Energy Conservation (home, school, community); Tracking (or studying) Climate Change; Activities/Studies related to managing “Carbon Footprints” in environment. Exhibits may consist of stationary or working models, posters, photo story/display, or electronic media. Electronic media must be submitted on a storage device like a CD or flash drive. You must provide proper viewing equipment for evaluation. Information must be included on media to indicate method of viewing entry. A short description of what was undertaken in the project, your experience, and what you learned through project must be included. This can be included in the entry itself or the entry tag.
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-02**
- **Maximum of 1 Open Class Entry (Class 03)**

### Class 00: CLOVERBUD

### Class 01: RENEWABLE & SUSTAINABLE ENERGY

### Class 02: CLIMATE CHANGE

**Class 03: OPEN CLASS:** Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* **This class is NOT eligible for NYS Fair.**

## SECTION 42: SCIENCE EXPERIMENTS & EXHIBITS

Classes 01-05: Excellent 5 • Good 4 • Worthy 3

### General Guidelines

- Individuals and groups are encouraged to enter exhibits/displays emphasizing what they learned and experienced in learning about science concepts in areas of agriculture, human ecology, life, or physical sciences. Any type or combination of science projects along with creativity is encouraged.
- **Maximum of 10 Cloverbud Entries (Class 00)**
- **Maximum of 2 entries per class in classes 01-04**
- **Maximum of 1 Open Class Entry (Class 05)**

**Class 00:** CLOVERBUD

**Class 01:** EXPERIMENTS

- Describe your hypothesis (what you think will happen); describe the procedures you performed; describe the observations you made; and what conclusions you drew from your experiment. Include photos or drawings and samples (if possible) from your experiment. Use display board/poster board for display. Include experiment description, introduction, hypothesis, methods, results, and your conclusions.

**Class 02:** PUBLIC SERVICE/CIVIC ENGAGEMENT PROJECTS:

- Exhibits can be of any public service or public education activity you took part in that had a scientific component. Examples may include watershed rehabilitation, recycling programs, and educational models. Project exhibit posters/display must be clearly labeled with a written statement of what the project is, how it relates to science, and why you are interested in the project.

**Class 03:** DESCRIPTIVE SCIENCE

- Science projects that are not experiments or service projects, but do consist of systematic observations and tell us about the natural world. Exhibit could show summaries of what you observed (ex: how the local bird population changes with the seasons; where flies like to breed in a barn; how many bites of food different animals eat per minute). Could present collections and classifications of materials which display physical or biological articles.

**Class 04:** CITIZEN SCIENCE

- Citizen Science is the engagement of public participants in real-world scientific collaborations – asking questions, collecting data, and/or interpreting results. A display or record of participation in a Citizen Science project, could be part of a local, regional, national, or international project, but needs to include some kind of connection to scientists, researchers, or policy makers and contribute to scientific knowledge that will be put to some type of use (by researcher, policy makers, etc.) Examples include: Wasp Watchers, Project Feeder Watch, eBird, Lost Ladybug, Adopt a Pixel, Nature's Notebook, or a local project. For more information: <http://www.birds.cornell.edu/citscitolkit/contexts/youth-development/4-h/>.

**Class 05:** OPEN CLASS: Any exhibit deemed by the 4-H Educator to be worthwhile that falls outside categories described above. *Exhibit requires prior approval of 4-H Educator.* This class is NOT eligible for NYS Fair.