

# DEPARTMENT 10

## 4-H AND VOCATIONAL – HOME PROJECTS

**Eligibility:** 4-H club members must have passed their eighth birthday but must not have passed their 19th birthday as of January 1st. Exhibitors must be 4-H members carrying a project in the field in which they wish to make entry and be under the supervision of their State University Cooperative Extension Service by their designated deadline. Open Class rules, regulations and entry times apply for all 4-H and Vocational Livestock Projects.

**EXHIBITORS MAY NOT SHOW IN BOTH DEPARTMENTS 10 AND DEPARTMENT 11 for the same project.**

### SECTION A-13 — VEGETABLES

1. Classes in this section are open to 4-H members who carry Vegetable Gardening, Gardening or Meet the Plants project.
2. All vegetables must be grown by the exhibitor.

Class .....	1st	2nd	3rd
100. Beans, green (10) .....	\$6	\$5	\$4
200. Beans, yellow (10) .....	\$6	\$5	\$4
300. Beans, lima (10) .....	\$6	\$5	\$4
400. Beets, topped (three) .....	\$6	\$5	\$4
500. Broccoli (one head) .....	\$6	\$5	\$4
600. Brussels sprouts (one pint) .....	\$6	\$5	\$4
700. Cabbage (one head) .....	\$6	\$5	\$4
800. Carrots, topped (five) .....	\$6	\$5	\$4
900. Cauliflower (one head) .....	\$6	\$5	\$4
1000. Celery (one plant in soil) .....	\$6	\$5	\$4
1100. Corn, sweet (5 ears, husks on) .....	\$6	\$5	\$4
1200. Cucumbers, Pickling (eight) .....	\$6	\$5	\$4
1300. Cucumbers, Slicing (three) .....	\$6	\$5	\$4
1400. Eggplant (one) .....	\$6	\$5	\$4
1500. Endive (one plant in soil) .....	\$6	\$5	\$4
1600. Kale (one plant in soil) .....	\$6	\$5	\$4
1700. Kohlrabi (three) .....	\$6	\$5	\$4
1800. Lettuce (one plant in soil) .....	\$6	\$5	\$4
1900. Onions, bulbs topped (five) .....	\$6	\$5	\$4
2000. Onions, green bunching (10) .....	\$6	\$5	\$4
2100. Parsnips (five) .....	\$6	\$5	\$4
2200. Peas (10 pods full) .....	\$6	\$5	\$4
2300. Peppers, green (three) .....	\$6	\$5	\$4
2400. Peppers, red (three) .....	\$6	\$5	\$4
2500. Peppers, hot (three) .....	\$6	\$5	\$4
2600. Peppers, sweet banana (three) .....	\$6	\$5	\$4
2700. Potatoes, white (five) .....	\$6	\$5	\$4
2800. Potatoes, red (five) .....	\$6	\$5	\$4
2900. Pumpkin (one) .....	\$6	\$5	\$4
3000. Radishes (five) .....	\$6	\$5	\$4
3100. Squash, summer (one) .....	\$6	\$5	\$4
3200. Squash, winter (one) .....	\$6	\$5	\$4
3300. Swiss Chard (one stalk in soil) .....	\$6	\$5	\$4
3400. Tomatoes, red (five) .....	\$6	\$5	\$4
3500. Tomatoes, green (five) .....	\$6	\$5	\$4
3600. Turnips (three) .....	\$6	\$5	\$4
3700. Gourds (three) .....	\$6	\$5	\$4
3800. Vegetable Freaks .....	\$6	\$5	\$4
3900. Any other veg. worthy of exhibit .....	\$6	\$5	\$4
4000. Vegetable Basket .....	\$6	\$5	\$4
4100. Gardening Levels A and B, poster (14" x 22") .....	\$6	\$5	\$4
4200. Gardening Levels C and D, poster (14" x 22") .....	\$6	\$5	\$4

### SECTION A-14 — SMALL FRUITS

Classes are open to 4-H members who carry a project, Strawberries for Food and Profit.

Class .....	1st	2nd	3rd
100. Strawberry, Unit I, plant in soil with runners .....	\$6	\$5	\$4
200. Strawberry, Unit II, 1/2 pint of jam or frozen preserves .....	\$6	\$5	\$4

**Note:** Canned foods for Sections A-13, Classes 36, 37, 38 and 41; Section A-14, Classes 2; and Section A-15, Class 13 must be exhibited in standard Mason-type, clear glass jar using a two-piece self-sealing lid (flat discs with metal screw band). Band must be removed for exhibit. All others will be disqualified.

## SECTION A-15 — FOODS AND NUTRITION

Note: Posters, if used, must be 14 by 22 inches only.

Class .....	1st	2nd	3rd
Cooking (See project book for requirement) .....	\$6	\$5	\$4
101. Cooking 101			
102. Cooking 201			
103. Cooking 301			
104. Cooking 401			
Exploring Cake Decorating with 4-H.....	\$6	\$5	\$4
201. Unit 1 – 2 layer cake using 3 tips for decorating			
202. Unit 2 – 2 layer cake using 3 tips including rose tip for decorating			
400. Candy Making.....	\$6	\$5	\$4
500. Science Fun with Kitchen Chemistry.....	\$6	\$5	\$4
Yeast Breads on the Rise.....	\$6	\$5	\$4
601. Year 1 - Pretzels (2), same type - include the recipe on an index card			
602. Year 1 - Rolls (4), same type - include the recipe on an index card			
603. Year 2 - One Loaf or round of yeast bread - include the recipe on an index card			
604. Year 2 - One Bread machine loaf or Four rolls/similar product - include the recipe on an index card			
Global Gourmet.....	\$6	\$5	\$4
701. Year 1 - A dessert cake or bread from another country or culture (indicate which). Include the recipe on an index card			
702. Year 2 - A poster giving information on foods from a country or culture outside the U.S.			
800. Snack Attack .....	\$6	\$5	\$4
Baking (See project book for requirement).....	\$6	\$5	\$4
901. Baking 1			
902. Baking 2			
903. Baking 3			
904. Baking 1			
Pie Baking .....	\$6	\$5	\$4
1001. Unit 1 – 2 crust fruit pie – include recipe on index card			
1002. Unit 2 – 1 crust fruit pie – include recipe on index card			
Breads Around the World.....	\$6	\$5	\$4
1101. Year 1 - A loaf or round of bread from another country or culture outside U.S., made without filling that does not require refrigeration. Include the recipe on an index card			
1102. Year 2 – Plate of 4 rolls, pretzels, tortillas or smaller breads from another country or culture. Include the recipe on index card			
1200. Canning 4-H Fruits & Tomatoes.....	\$6	\$5	\$4
Grill Master .....	\$6	\$5	\$4
1301. Year 1 - Display Foil Pack Banana Boat from book 22			
1302. Year 2 - Make a poster 14x22" of the Ready, Set, Grill on page 12 of equipment and safe grilling			
1303. Year 3 - Make a poster of how to start a gas grill on page 15			
Beyond the Grill.....	\$6	\$5	\$4
1401. Year 1 - Make a poster 14x22" of how to pack a cooler using page 9 and 47 as a guide			
1402. Year 2 - Display baked apples in foil. Attach one 8x11 page of pictures of you doing the project			
1403. Year 3 - Display grilled pineapple rings on page 40. Display the finished "Catch Some Rays and Cook" on page 18-21. Attach one 8x11 page of pictures of you doing the project.			

## SECTION A-17 — FLORAL EXHIBITS

1. Exhibits must be cut flowers grown by the exhibitor as a 4-H floral project and must conform to the number of blooms, spikes or stems specified in each class.
2. The uniformity of height, color or size is important in evaluating entries.
3. Flowers in each entry must be of one color and variety, unless stated otherwise.

## SECTION A-17A — FLOWERS

Classes 100 through 1902 are open for 4-H members who carry a project in Gardening and Landscape Gardening or Meet the Plants.

Class.....	1st	2nd	3rd
100. Asters, five blooms .....	\$6	\$5	\$4
200. Bachelor's Button, five stems .....	\$6	\$5	\$4
300. Bells of Ireland, three stems .....	\$6	\$5	\$4
500. Celosia, one stem.....	\$6	\$5	\$4
600. Cosmos, five blooms .....	\$6	\$5	\$4
700. Dahlia, one bloom.....	\$6	\$5	\$4
800. Daisy, five blooms .....	\$6	\$5	\$4
Gladiolus, one spike .....	\$6	\$5	\$4
100-200. (not to exceed a 17" stem)			
901. White			
902. Green — Yellow			
903. Orange — Salmon — Pink			
904. Red — Rose — Lavender			
905. Darks — Violet — Smokies — Tan — Brown			

300-400-500. (not to exceed a 20" stem)			
906. White			
907. Green — Yellow			
908. Orange — Salmon — Pink			
909. Red — Rose — Lavender			
910. Darks — Violet — Smokies — Tan — Brown			
Three Spike .....	\$6	\$5	\$4
911. One Color			
912. Mixed Colors			
1000. Impatiens, five blooms.....	\$6	\$5	\$4
1101. Marigold, large five blooms.....	\$6	\$5	\$4
1102. Marigold, small five blooms .....	\$6	\$5	\$4
1200. Nasturtium, five blooms.....	\$6	\$5	\$4
1300. Pansy, five blooms .....	\$6	\$5	\$4
1400. Petunia, five blooms .....	\$6	\$5	\$4
1500. Scabiosa, five blooms .....	\$6	\$5	\$4
1600. Snapdragon, three spikes.....	\$6	\$5	\$4
1700. Sweet peas, five stems.....	\$6	\$5	\$4
1800. Verbena, three stems .....	\$6	\$5	\$4
1901. Zinnia, large (over 2") three blooms .....	\$6	\$5	\$4
1902. Zinnia, small (under 2") three blooms.....	\$6	\$5	\$4
2000. Any other annuals.....	\$6	\$5	\$4
2100. Bouquet of assorted flowers, five or more varieties....	\$6	\$5	\$4
2200. Gardening — poster (14" x 22").....	\$6	\$5	\$4
2300. Meet the Plants — poster (14" x 22").....	\$6	\$5	\$4
2500. Herbs — poster (14" x 22").....	\$6	\$5	\$4
Herb Gardening .....	\$6	\$5	\$4
2701. Year 1			
2702. Year 2			
2703. Year 3			

#### SECTION A-17B — FOLIAGE PLANTS

Classes 100-900 are open to 4-H members who carry a project in House Plants, Indoor Gardening, Meet the Plants or Gardening A-D.

Class .....	1st	2nd	3rd
100. African Violets.....	6	5	4
200. Begonias.....	6	5	4
300. Cacti .....	6	5	4
400. Coleus .....	6	5	4
500. Ferns .....	6	5	4
600. Geraniums.....	6	5	4
700. Ivy .....	6	5	4
800. Philodendron .....	6	5	4
900. Other Foliage plant .....	6	5	4
1000. Educational display or poster, Gardening.....	6	5	4

#### SECTION A-18A — TEXTILE SCIENCE (Clothing & Textiles)

Class .....	1st	2nd	3rd
Sew Much Fun (Beginner Level) .....	6	5	4
101. Pants, shorts, skirt with elastic or drawstring waistband			
102. Apron with elastic or drawstring waistband			
103. Shirt, top or blouse with casing or simple closure			
104. Costume, night clothes or dress with casing or simple closure			
105. "Instant" top, skirt, or dress using a pre-shirred fabric or cutout.			
106. Other simple garment			
Sew Much More (Beginner Level) .....	6	5	4
201. Travel, bed, sewing caddy or pocket beach towel			
202. Draft dodger			
203. Pot holders or mitt			
204. Pillow			
205. Quillo			
206. Pajama tote, laundry or gym bag			
207. Wall hanging			
208. Other item (not a garment)			
Stitch by Stitch (Beginner Level) .....	6	5	4
301. Sampler with a variety of hand stitches, buttons or patches			
302. Hand-stitched large item			
303. Two hand-stitched small items			

Knits (Intermediate Level).....	6	5	4
401. Knit T-shirt or sweat shirt			
402. Knit jogging suit or playsuit			
403. Knit dress			
404. Other knit outfit			
405. Outfit using both knit and woven construction			
Coordinates (Intermediate Level) .....	6	5	4
501. Simple top, vest or poncho and a skirt with waistband or facing			
502. Simple top, vest or poncho and slacks or shorts with a waistband or facing			
503. Simple top, vest or poncho and a jumper or jumpsuit with a facing			
504. Simple dress (shift)			
<b>Note:</b> 4-H members making more advanced garments should take and exhibit in the separates project			
Accessories (Intermediate Level) .....	6	5	4
601. A group of three different accessories (Gloves and paired items count as one type).			
Time Saving Sewing (Intermediate Level).....	6	5	4
701. A garment using a time-saving pattern or one that features a unique technique. The pattern instructions or information in the technique must be included.			
702. Two pressing aids.			
703. Educational game or teaching aid or sampler of new techniques learned.			
Sewing for Other Projects and Other People (Inter. Level) ....	6	5	4
801. Garment for another person with photo of person wearing the garment.			
802. Toy, blanket, kite or other items made in this project.			
Separates (Advanced Level) .....	6	5	4
901. Two - (or more) piece nontailored outfit.			
902. Dress or two-piece dress that is more advanced than the one in the Co-ordinates project.			
Tailoring (Advanced Level).....	6	5	4
Garments must be shaped using custom, dressmaking or contemporary (fusing) applications. Simple jackets, advanced coordinates, three-piece outfits without tailored applications should be exhibited in the Separates project.			
1001. Tailored jacket or sports coat			
1002. Tailored coat			
1003. Tailored ensemble			
Formalwear (Advanced Level).....	6	5	4
1100. Special-occasion garment			
Create Your Own Project.....	6	5	4
1200. Project book and a display, poster or garment produced in the project.			
Design a Garment .....	6	5	4
1301. A purchased garment or textile with applied design (ex. stenciling, smocking, sweat shirt decorating, appliqué, tie-dye, etc.)			
1302. A garment or textile created/woven from an original design.			
1303. Recycled or remade garment with before photo or drawing			
1400. Exploring Clothes from World Cultures .....	6	5	4
Quilt Quest.....	6	5	4
1501. <b>Beginner</b> (Display one of the items from the list below)			
Quilt block, hand or machine quilted			
Table runner			
Placemat			
Doll quilt			
Wall hanging or other small quilted item. Display quilted item.			
1502. <b>Intermediate</b> (Display one of the items from the list below)			
Tied quilt			
Crazy quilt			
Strip pieced			
Log cabin			
Patchwork or other quilted wall hanging/lap quilt size or larger, or Garment that is quilted or has elements that have been quilted by hand			
1503. <b>Advanced</b> (Display one of the items from the list below)			
Including but not limited to Appliqué Trapunto			
Sashiko			
Seminole			
Hawaiian, etc.			
Quilt Block or small project using one or more advanced technique,			
Quilt with advanced skill for twin bed size or larger			
Miscellaneous Clothing & Textile Non Sewing Projects .....	6	5	4
1701. Closet Connection — Closet or storage aid Wardrobe Planning			
1702. Wardrobe inventory and plan for mixing and matching garments			
1703. Shopping - In a photo album, display a picture of a complete ensemble with accessories. Include price list of ensemble items			
1704. Shopping - Create a poster showing an idea learned in project. Include a cost analysis			

#### SECTION A-18B — KNITTING, CROCHETING & WEAVING

Class .....	1st	2nd	3rd
Knitting.....	6	5	4
Beginner			
101. Two small knitted articles (paired items, such as slippers count as one article)			
Intermediate			
102. One small knitted article from the project list (paired items, such as socks, count as one article)			
103. One knitted garment			
104. One large article, such as an afghan			

Advanced			
105. Article or garment using multiple colors and/or stitches			
106. Other garment or article with advanced knitting skills			
Crocheting .....	6	5	4
Beginner			
201. Two small knitted articles (paired items such as slippers count as one article)			
Intermediate			
202. One article from the project list (paired items such as mittens count as one article)			
203. One crocheted garment or large article, such as an afghan			
Advanced			
204. One article from the project list (paired items such as gloves count as one article)			
205. One crocheted garment or large article, such as a rug or bedspread			
Weaving .....	6	5	4
301. Cloth or textile made on a loom of some type (with photo or drawing of loom)			
302. A homemade loom or a poster showing types of looms, how to use a loom or equipment used in weaving.			

**SECTION A-19 — VISUAL & EXPRESSIVE ARTS**

Class .....	1st	2nd	3rd
Photography "Focus on Photography" .....	6	5	4
101. Year 1 - In a photo album complete activities on page 4.			
102. Year 2 - In photo album complete activities on page 6			
Photography "Controlling the Image" .....	6	5	4
201. Year 1 - In photo album complete activities on page 4			
202. Year 2 - In photo album complete activities on page 6			
Photography "Mastering Photography" .....	6	5	4
301. Year 1 - In photo album complete activities on page 4			
302. Year 2 - In photo album complete activities on page 6			
Arts and Crafts – Portfolio Pathways .....	6	5	4
401. Year 1 – Display the item you made and book from Unit 1 Painting on page 10 – 34			
402. Year 2 – Display the item you made and book from Unit 2 Printing on page 36 – 55.			
403. Year 3 – Display the item you made and book from Unit 3 Graphic Design on page 57 – 74			
Arts and Crafts – Sketchbook Crossroads .....	6	5	4
501. Year 1 – Display the item you made and book from Unit 1 Drawing on page 10 - 27.			
502. Year 2 – Display the item you made and book from Unit 2 Fiber Art on page 29 - 51.			
503. Year 3 – Display the item you made and book from Unit 3 Sculpture on page 53 - 71.			
600. Scrapbooking.....	6	5	4
Theatre Arts Adventures.....	6	5	4
701. Theatre Arts Books — Level 1			
702. Theatre Arts Books — Level 2			
703. Theatre Arts Books — Level 3			

**SECTION A-20 — GROUP EXHIBITS**

**2017 THEME — "4-H Scenes, Blue Ribbon Dreams"**

Club exhibits, which are set up separately from project exhibits, should depict the 4-H theme and group club work. Each club is allotted a display space to set up a science fair display board. To reserve space, a \$10 deposit must be sent to the department chairperson by Aug. 1, and will be refunded at the conclusion of the fair if requirements are met. Requirements are: display of exhibit, set up by 7pm on Sunday August 20<sup>th</sup>, and removal during release of exhibits on Saturday August 26<sup>th</sup> including removal of all tacks or staples used.

Display will be judged on the following:

1. Depicts theme.....	5 points
2. Attracts attention.....	15 points
3. Arouses interest.....	10 points
4. Educational value .....	30 points
5. Design .....	20 points
6. Originality.....	10 points
7. Workmanship .....	10 points
<b>TOTAL POSSIBLE POINTS.....</b>	<b>100 points</b>

Class .....	1st	2nd	3rd	4th	5th
100. 4-H Community, Home Economics and Horse Clubs.....	15	12	10	8	5
200. FFA and/or FHA .....	15	12	10	8	5

**SECTION A-21 — DEMONSTRATION CONTEST**

1. Applicants must be members of a 4-H Club.
2. All demonstrations must be entered in Department 10 by 5 p.m., Sunday, Aug. 20th.
3. Demonstrations will be presented on Saturday, Aug. 26<sup>th</sup> in the 4-H Community Building at 10 am. Please arrive by 9:30am. We will work oldest to youngest to present demonstrations.
4. The contest will be scored as follows:  
 Introduction — 5 percent, Topic — 5 percent, Appearance — 10 percent,  
 Speech — 10 percent, Presentation — 30 percent, Subject Matter — 20 percent, Visual Aids — 10 percent, Summary — 10 percent

<b>Class .....</b>	<b>1st</b>	<b>2nd</b>	<b>3rd</b>
100. Demonstrator — ages 8, 9, 10, and 11 .....	8	6	5
200. Demonstrator — ages 12, 13, and 14 .....	8	6	5
300. Demonstrator — ages 15 and older .....	8	6	5

**SECTION A-22 — NATURAL RESOURCES**

Exhibit posters must be 14" x 22" only.

<b>Class .....</b>	<b>1st</b>	<b>2nd</b>	<b>3rd</b>
Wildlife is All Around Us .....	6	5	4
101. Book 1 – Wildlife Detective Draw and label a herbivore, carnivore and omnivore.			
102. Book 2 – Spring Exhibit a birdhouse using photos or drawings on a poster.			
103. Book 3 – Summer Exhibit set of animal tracks using photos or drawings on a poster.			
104. Book 4 – Fall Exhibit map of wildlife shelters using photos or drawings in a poster.			
105. Book 5 – Winter Draw and label tracks of four animals on a poster.			
Wildlife Manager.....	6	5	4
201. Unit 1 – Wildlife Ecologist / Referring to page 12-15 of the book, list the 6 types of habitats, their definitions, and a drawing or picture of the different habitats.			
202. Unit 2 – Wildlife Manager / Exhibit a poster of your management plan. Use pictures to show the area before and after the habitat management plan			
300. Wildlife - Beyond Fair Chase.....	6	5	4
Hunting Practices – Do a poster with two pictures of you or someone practicing good ethics while hunting			
400. Adopt-a-tree.....	6	5	4
Refer to roundup requirements.			
500. Trees + Me = Forestry .....	6	5	4
Refer to roundup requirements			
Treetop .....	6	5	4
Refer to Roundup requirements for each year.			
601 Year 1                      604 Year 4			
602 Year 2                      605 Year 5			
603 Year 3			
Advancing in Forestry.....	6	5	4
Refer to roundup requirements for each year.			
701 Year 1                      704 Year 4			
702 Year 2                      705 Year 5			
703 Year 3			
Water Conservation.....	6	5	4
Refer to Roundup Requirements for each Unit			
801. Unit 1			
802. Unit 2			
803. Unit 3			
Entomology.....	6	5	4
Unit 1 "Catch the Bug"			
901. Year 1 Make an insect killing jar and display 25 species of insects from 5 orders, properly mounted and labeled.			
902. Year 2 Make a net and display 50 species of insects from 9 orders, properly mounted and labeled.			
903. Year 3 Self-Determined - Display specimen of 75 species of insects from 12 orders, properly mounted & labeled			
904. Year 4 Self-Determined - Display specimen of 100 species of insects from 15 orders, properly mounted and labeled.			
Unit 2 "Creepy Crawlies"			
905. Year 1 - Display model insect. Label the parts of the insect from page 6 of the book.			
906. Year 2 - Display two pictures on a poster of what an object looks like and how an insect sees the object -refer to page 18			
907. Year 3 – Display on a poster the activity on page 26 of the book. List at least 8.			
Unit 3 "What's Bugging You?"			
908. Year 1 – On a poster, do the activity on page 6 of the book. List at least 4 and include pictures.			
909. Year 2 - Display Indoor insect trap on page 13 with data on 3 insects.			
910. Year 3 - Display an Insect separator on page 31 with orders on 3 insects from page 30.			
Exploring Your Environment.....	6	5	4
1001. Ecosystem Services              1004. Rain to Drain			
1002. Earth's Capacity			
1003. Biofuels			

## SECTION A-23 — ADVENTURES & OUTDOORS

Poster exhibits must be 14" x 22" only.

Class .....	1st	2nd	3rd
Outdoor Adventures .....	6	5	4
101. Level 1 "Hiking Trails" Display in an album 15 pictures of you or others on a walking trail. Pictures should be labeled and include flowers, animals, foot prints of animals, and other discoveries on your hiking trail.			
102. Level 2 "Camping Adventures" - Display on a poster 4 out of the 8 knots from page 14.			
103. Level 3 "Back Packing Expeditions" - On a poster draw a map of your routes to school including landmarks, roads, etc			
Fishing Adventures .....	6	5	4
<b>Book 1 "Taking the Bait"</b>			
201. Year 1 - On a poster: label all the "Fishy Baits" with name and picture from page 24-25 of the book.			
202. Year 2 - On a poster: label all the Fish with name and picture from page 28 of the book.			
203. Year 3 - On a poster: label the parts of a fish from page 32 of the book.			
<b>Book 2 "Reel in the Fun"</b>			
204. Year 1 - Make a poster of a spinning reel and label its parts. Use page 6 as a guide.			
205. Year 2 - Make a poster displaying the 6 fishing knots found on page 13 and label them.			
206. Year 3 - Make a Soda Bottle Trap and poster with 5 critters with their names on page 26-27.			
<b>Book 3 "Cast into the Future"</b>			
207. Year 1 - Take pictures of you cleaning a reel and make a poster displaying the parts of a reel and the pictures. Use page 7 as a reference.			
208. Year 2 - Make a poster identifying four types of flies, tied flies that look like the insects and a fact about each insect. Display real insects with your poster and use page 20 and 21 as a reference.			
209. Year 3 - Use a photo album and fill it with colored pictures of at least 20 fish and use the labels on page 31 under each picture			
Shooting Sports .....	6	5	4
Requirements are contained in the project book.			
301. Riflery			
302. Air Rifle			
303. Advanced Air Rifle			
304. Archery			
305. Air Pistol			
306. Advanced Air Pistol			
307. Shotgun			
400. Orienteering .....	6	5	4
Draw a picture of a compass and label the five parts of the compass. List the 3 recommended parts that should be on a compass before purchasing and the 2 parts not recommended on a compass.			

## SECTION A-24 — ENGINEERING

Poster exhibits must be 14" x 22" only.

Class .....	1st	2nd	3rd
Electricity "Magic of Electricity" — Unit 1 .....	6	5	4
101. Year 1 - Display your 4-H project and the "Making a Switch" item found on page 13.			
102. Year 2 - Display your 4-H project and the "Making an Electromagnet" item found on page 29.			
103. Year 3 - Display your 4-H project and the "Building a Galvanometer" item found on page 31.			
Electricity "Investigating Electricity" — Unit 2 .....	6	5	4
201. Year 1 - Display your 4-H project and the "Building a Three-way Switch" item found on page 27.			
202. Year 2 - Display your 4-H project and the "Building a Rocket Launcher" item found on page 31.			
203. Year 3 - Display your 4-H project and the "Building an Alarm" item found on page 33			
Electricity "Wired for Power" — Unit 3 .....	6	5	4
301. Year 1 - On a poster, display real samples of the "Types of Wire" found on page 15. Label each wire with a name and description.			
302. Year 2 - Display your 4-H project. Display the Brain Boosters identifying the different types and sizes of switches found on page 23.			
303. Year 3 - Display your 4-H project and the Test for Voltage found on page 25			
Electricity "Entering Electronics"— Unit 4 .....	6	5	4
401. Year 1 - Display your 4-H project and 10 of the items found on project book labeling each part.			
402. Year 2 - Display your 4-H project - the 11 "Electronic Parts Symbols" and their names found on page 7 of the project book.			
403. Year 3 - Display your 4-H project and "Blinky" the LED Flasher described on page 18 of the book.			
Small Engines "Crank It Up"— Level 1 .....	6	5	4
501. Year 1 - Label all the external parts of a lawn mower. Use page 6 of the book as a guide.			
502. Year 2 - Under the pictures of tools on page 10 in the book, print the name and use for each tool.			
503. Year 3 - Label all the parts of a spark plug and describe the 3 steps in removing the spark plug. Use page 20 of the book as a guide.			
Small Engines "Warm It Up" — Level 2 .....	6	5	4
601. Year 1 - On a poster, label the tools used for maintenance and repair of small engines found on page 10 in the book. Under the pictures, include the name and use for each tool.			
602. Year 2 - In a photo album, display 5 pictures of you testing 5 different oil grades for viscosity under different conditions. Include the chart on page 16 with the recorded results for the 5 oil grades. Label all pictures.			
603. Year 3 - In a photo album, display 7 pictures of the 7 steps for preparing your small engine for storage. Include pages with all the written steps found on page 22 for preparing a small engine for storage. Label all pictures.			
Small Engines "Tune It Up" — Level 3 .....	6	5	4
701. Year 1 - Design a poster with pictures of all the diagnostic tools found on page 8 in the book. Under each picture, name the diagnostic tool and describe its use.			
702. Year 2 - In a photo album display, 5 pictures of you disassembling a small engine using the guide on page 18 of the book. List the parts to be replaced with part name, number, and number needed. Label all pictures.			
703. Year 3 - In a photo album, display 6 pictures of you removing, sharpening, and balancing a lawn mower blade using page 22 as a guide. The 6 pictures should be from the checklist found on page 22. Label all pictures.			

Junk Drawer Robotics Level 1 –.....	6	5	4
“Give Robots A Hand” - Display the module activity along with book.			
801. Module 1 - Marshmallow Catapult .			
802. Module 2 - Robotic Arm.			
803. Module 3 - Pneumatic Arm			
Junk Drawer Robotics – Level 2.....	6	5	4
“Robotics on the Move” - Display the module activity along with book.			
901. Module 1 - Clip Mobile.			
902. Module 2 - Can-Can Robot.			
903. Module 3 - Es-Car-Go-			
Junk Drawer Robotics – Level 3.....	6	5	4
“Mechatronics” - Display the module activity along with book			
1001. Module 1 - Double Pole Throw with Switch			
1002. Module 2 - Wall Follower Robot.			
1003. Module 3 - Design a Robot to do a Specific Task			
1100. Platform Robotics – Level 1 .....	6	5	4
1200. Platform Robotics – Level 2 .....	6	5	4
1300. Platform Robotics – Level 3 .....	6	5	4
1400. Virtual Robotics – Level 1 .....	6	5	4
1500. Virtual Robotics – Level 2.....	6	5	4
1600. Virtual Robotics – Level 3.....	6	5	4
1700. Robotics Youth Notebook.....	6	5	4
1800. Robotics with EV's.....	6	5	4
Rocketry .....	6	5	4
1901. Year 1 - Rockets are limited to balsa fin & paper tube construction. No pre-finished parts. Plastic nosecones and body tube connectors are permitted. No prefabricated fin assemblies. The judging will look at the following: fin, engine mount, launch lug, recovery system, nose cone and finish.			
1902. Year 2 - Pre-finished parts. plastic nosecones and body tube connectors are permitted. Pre- fabricated fin assemblies. The judging will look at the following: fin, engine mount, launch lug, recovery system nose cone and finish.			
1903. Year 3 - Display your rocket and book			
Woodworking “Measuring Up”— Level 1.....	6	5	4
Display your woodworking item according to the list from the project book.			
2001. Year 1			
2002. Year 2			
2003. Year 3			
Woodworking “The Cut” — Level 2.....	6	5	4
Display your woodworking item according to the list from the project book.			
2101. Year 1			
2102. Year 2			
2103. Year 3			
Woodworking “Nailing It Together” — Level 3.....	6	5	4
Display your woodworking item according to the list from the project book.			
2201. Year 1			
2202. Year 2			
2203. Year 3			
Woodworking “Finishing It Up” — Level 4.....	6	5	4
Display your woodworking item according to the list from the project book.			
2301. Year 1			
2302. Year 2			
2303. Year 3			
2400. Aerospace Adventures – Level 1.....	6	5	4
Pre-Flight - Exhibit the “Wonderful Wings” booklet that you made on page 7 of your project book. Exhibit the “Space Buggy” that you made. (Page 12)			
2500. Aerospace Adventures – Level 2.....	6	5	4
Lift-Off - Display your project book in an album along with 10 photos of you making your rocket, pictures of your completed rocket, and pictures of you launching your rocket. On the cover of your album, place a picture of your completed rocket. The picture on cover should be bigger than 3” x 5.” Please display rocket if still in one piece.			
2600. Aerospace Adventures – Level 3.....	6	5	4
Reaching New Heights - Display your project book. In an album include 10 pictures of you making a kite on page 24 and pictures of you flying your kite. Also display your completed kite.			
2700. Aerospace Adventures – Level 4.....	6	5	4
Pilot in Command -Display your project book. In an album, include 10 pictures of you making a rocket, pictures of your completed rocket, and a picture of you launching your rocket. On the cover of your album place a picture of your completed rocket. Pictures on cover should be bigger than 3” x 5”. Please display rocket if still in one piece			
2800. Power of Wind .....	6	5	4
Display one of the pinwheels and one of the wind powered boats along with book.			

#### SECTION A-28 — VETERINARY SCIENCE & SMALL ANIMAL CARE

Poster Size — Must be 14” x 22” only.

Class .....	1st	2nd	3rd
Veterinary Science .....	6	5	4
Level 1 “Airedales to Zebras”			
101. Year 1 - Pg 14 Display word match and answers on a poster.			
102. Year 2 - Pg 15 Display “What Makes You Tick?” words and definition on a poster			



103. Year 3 - Pg 20 Display five of the Pet Safety Patrol on a poster. Level 2 "All Systems Go"			
104. Year 1 - Pg 12 Display the Blood Cell Matching Activity & answers on a poster.			
105. Year 2 - Pg 18 Display the Quality Insurance Good Production Practices on a poster.			
106. Year 3 - Pg 26 Display the 8 questions & answers from "You Do the Math." On a poster. Level 3 "The Cutting Edge"			
107. Year 1 - Pg 8 Display questions & answers from reproductive terms on a poster.			
108. Year 2 - Pg 12 Display the job title match with veterinarian careers on a poster.			
109. Year 3 - Pg 30 Display the Medical Technology Items & uses on a poster.			
Small Animal Care.....	6	5	4
201., Year 1 "Pet Pals" – On a poster show photos of you selecting a pet, identifying pet parts and handling pets.			
202. Year 2 "Scurrying Ahead" – On a poster show photos of you feeding and caring for pets, observing pet behavior, and exhibiting pets.			
203. Year 3 "Scaling the Heights" - On a poster show photos of you exploring genetics, pet issues, reproduction, caring for newborns, starting a business and careers.			
Cat & Dog.....	6	5	4
301. Cat – "Purr-Fect Pals" - Level 1 Display 4-6 photos of your cat doing different activities on a poster board.			
302. Cat -" Climbing Up" - Level 2 Make a poster of a cat using his or her six senses on a poster. Label the six senses			
303. Cat – "Leaping Forward" - Level 3 Make a poster with 8 pictures of you completing the check list on page 23 of your book.			
304. Dog Project - Year 1 - Make a poster of three different dog pictures of three different ear types, and label and describe each one.			
305. Dog Project - Year 2 - Make a poster board of five kinds of tail carriage and find a picture of each.			
Pocket Pets .....	6	5	4
101. Year 1 Make a poster identifying four breeds of hamsters and describe their main differences.			
102. Year 2 Make a poster identifying ten body parts of a gerbil, hamster, mouse or rat.			

#### SECTION A-26 — FAMILY, HEALTH & CONSUMER SCIENCES

If poster — Exhibit must be 14" x 22" only.

Class .....	1st	2nd	3 <sup>rd</sup>
Family.....	6	5	4
101. Child Care - Babysitting Beginnings			
102. On My Own and OK			
103. Celebrate your Family through 4-H - Spending Time Together			
104. Generation Celebration			
Financial Champions.....	6	5	4
201. Level 1 – Money FUNdamentals			
202. Level 2 – Money Moves			
Health.....	6	5	4
301. First Aid in Action			
302. Keeping Fit			
303. Staying Healthy			
Consumer Education.....	6	5	4
401. Kids and Kash Level 1			
402. Kids and Kash Level 2			
403. Kids and Kash Level 3			
404. Kids and Kash Level 4			
501. Reading Makes Cents.....	6	5	4

#### SECTION A-27 — LEADERSHIP & PERSONAL DEVELOPMENT

If poster — Exhibit must be 14" x 22" only.

Class .....	1st	2nd	3 <sup>rd</sup>
People, Work and Me.....	6	5	4
101. Year 1 - Interview two people who have a job. Find out what their job involves. Put the interview write-up in a notebook along with 5 pictures of the person at the job site.			
102. Year 2 - Take 6 pictures of the town or community in the area where you live. Label all pictures of the job site. Describe the type of employees and years of education required for the job.			
103. Year 3 - Visit the work site and do the activity "Inquiring Minds Want to Know." Include the 5 questions you asked when made the visit. Enclose 5 photos of your visit.			
104. Year 4 - Make the "Career Palette" mentioned in the "How to Extend" section of the activity on page 67			
Citizenship.....	6	5	4
201. Public Adventures – Display your completed Adventure Kit: Book in a three ring binder. Add letters and use 10 or more photos.			
202. 4-H Stepping Stones to Citizenship			
Leadership.....	6	5	4
301. Step Up to Leadership Level 1			
302. Step Up to Leadership Level 2			
303. Step Up to Leadership Level 3			
400. 4-H Stepping Stones to Citizenship.....	6	5	4
500. Exploring Treasures of 4-H .....	6	5	4
Service Learning.....	6	5	4
601. Unit I – Agents of Change			
602. Unit II – Raise your Voice			

**SECTION A-29 — MISCELLANEOUS**

If poster — Exhibit must be 14" x 22" only.

<b>Class</b> .....	<b>1st</b>	<b>2nd</b>	<b>3rd</b>
100. Embryology.....	6	5	4
Animal Projects (posters 14x22in only) .....	6	5	4
201. Beef			
202. Sheep			
203. Dairy			
204. Horse			
205. Swine			
206. Rabbit			
207. Poultry			
208. Goat			
209. Llama/Alpaca			
Self-Determined Project .....	6	5	4
Animal and Plant Sciences			
301. Ages 8-11			
302. Ages 12-14			
303. Ages 15-18			
Home Related Arts			
304. Ages 8-11			
305. Ages 12-14			
306. Ages 15-18			
Engineering and Technology			
307. Ages 8-11			
308. Ages 12-14			
309. Ages 15-18			
400. Interstate Exchange Project .....	6	5	4
500. Collectibles .....	6	5	4