

**CLASS 3 Weed Display** – The purpose of this class is to allow original and creative exhibits that contain educational information about weeds, such as the effects of weed control, herbicide resistant weeds, uses for weeds, or makes a weed a weed.

**RANGE MANAGEMENT RULES**

- 1. GENERAL RULES** - See GENERAL RULES – AGRONOMY
- 2. ENTRY ELIGIBILITY** – Individuals in Range Management Unit I may exhibit a collection of 12 different range plants in Classes 1-5. Individuals in Range Management Unit II may exhibit in Classes 1-7.
- 3. REFERENCE MATERIALS** – For assistance identifying and categorizing plants, participants can use the *Range Judging Handbook for Nebraska* (EC 84-109), *Nebraska Range and Pasture Plants* (EC 85-170) and *Nebraska Range/Pasture Forbs and Shrubs* (EC 89-118).
- 4. JUDGING** – Each exhibit must be properly identified with Unit and Class. Exhibits will be judged based on completeness of plant mount, accuracy of identification, label, neatness and conformation to project requirements. All plant displays and display covers must be the result of current year's work.
- 5. BOOK GUIDELINES** – Plants must be mounted on sheets that are 14" wide x 14" high. Plants should be glued rather than taped and the mounts should be protected with a clear cover. Each completed mount must have the following information typed or printed neatly in the lower righthand corner of the mounting sheet:  
 Scientific name (in italics or underlined) with authority  
 Common name  
 County of collection  
 Collection date  
 Collector's name  
 Collection number  
 Other information depending on class selected (i.e. grazing response, longevity, season of growth, etc.)

DEPARTMENT D	DIVISION 330			RANGE MANAGEMENT
PREMIUM	Purple \$2.50	Blue \$2.00	Red \$1.50	White \$1.00
<b>CLASS 1</b>	<b>Value and Importance for Livestock Forage and Wildlife Habitat and Food</b> – A collection of 12 different plants with 4 classified as high value, 4 as medium value, and 4 as low value for livestock forage, wildlife habitat, or wildlife food. Plants can consist of any combination of grasses, grass-like plants, forbs, or shrubs. Assemble plant mounts in order of high, medium, and low value and importance. Label each plant mount with its value and importance classifications for each of the three area: Livestock Forage, Wildlife Habitat, and Wildlife Food.			
<b>CLASS 2</b>	<b>Life Span Book</b> – A collection of 6 perennial plants and 6 annual plants selected from grasses or forbs.			
<b>CLASS 3</b>	<b>Growth Season Book</b> – A collection of 6 cool-season grasses and 6 warm-season grasses.			
<b>CLASS 4</b>	<b>Origin Book</b> – A collection of 6 native range grasses and 6 introduced grasses. Introduced grasses are not from North America and often used to seed pastures.			
<b>CLASS 5</b>	<b>Major Types of Range Plants Book</b> – A collection of 3 grasses, 3 forbs, 3 grass-like, and 3 shrubs.			
<b>CLASS 6</b>	<b>Range Plant Collection Book</b> – A collection of 12 range plant mounts with something in common (i.e. poisonous to cattle, historically used as food by Native Americans, dye plants, favorite antelope forage, etc.) Include a short paragraph in the front of the book which describes what the plants have in common and why you have chosen to collect them.			
<b>CLASS 7</b>	<b>Parts of a Range Plant Poster</b> – Mount a range plant to a poster board. Label all the plant parts. Include the plant label in the lower right corner.			
<b>CLASS 8</b>	<b>Range Plant Board</b> – Will include 25 range forage species important to a particular county. The display board should be hinged in the middle. Each completed mount must have the following information typed or printed neatly: Scientific name (in italics or underlined) with authority Common name County of collection Collection date Collector's name Personal collection number, indicating the order that plants were collected in your personal collection Other information as needed			
<b>CLASS 9</b>	<b>Special Study Exhibit</b> – A display of the results of a clipping study, a degree of use study, or a range site study. The boards in this class should be 30" x 36" or if hinged in the middle, may be 60" x 36". The display should be adequately labeled.			
<b>CLASS 10</b>	<b>Junior Rancher Exhibit</b> – The exhibit should include a ranch map with a record book or an appropriate educational display on some phase of rangeland or livestock.			

**HORTICULTURE**

**GENERAL RULES – HORTICULTURE**

- 1. GENERAL RULES** – See GENERAL RULES
- 2. TOP EXHIBITS** – A top exhibit will be selected from those exhibits receiving purple ribbons in the Floriculture; Vegetable, Herbs & Fruits projects; and Grow a Beautiful Space projects
- 3. MANUALS** – Printed materials are available from the Johnson County Extension Office for all currently enrolled 4-H members in Johnson County.

**FLORICULTURE RULES**

- 1. GENERAL RULES** – See GENERAL RULES – HORTICULTURE EXHIBITS
- 2. ENTRY ELIGIBILITY** - Youth must be enrolled in the World of Flowers and/or Annual Flowers projects to exhibit in classes 1-44 (cut flowers) and 50-53 (notebooks and posters). Youth must be enrolled in the Growing Great Houseplants project to exhibit in classes 60-65 (container grown plants).
- 3. ENTRY LIMITS** - Youth may enter a maximum of 4 entries in classes 1-53. Youth may enter a maximum of 3 entries in classes 60-65.
- 4. PREPARING ENTRIES** - Follow the guidelines in 4-H "Preparing Cut Flowers for Exhibits" 4H227 (revised 7/20/12) (Available at: <https://johnsoncounty4h.org/static-exhibit-resources/>) when preparing entries for the fair.
- 5. CULTIVARS** - The cultivar or variety name must be included on all entry cards. Failure to identify the cultivar or variety will drop the entry one ribbon placing. Keep your seed package or identification label at planting time. Proper identification is the responsibility of the exhibitor not the Extension Staff or Office personnel.
- 6. ENTRY TAGS** - For Floriculture, punch hole in the top center of entry tag and use a rubber band to securely attach entry tag to containers.
- 7. CLASSIFICATION** - Exhibits entered under an incorrect class number or containing an incorrect number of flowers will be dropped one ribbon placing. A perennial is defined as a plant of which the crown overwinters. An annual is a plant that grows from seed each season, whether self-

seeded or planted by the gardener. A biennial is a plant that germinates, grows and overwinters as a crown, blooms the following year and dies. Foliage will be considered when exhibit is judged.

8. **CUT FLOWERS** - All 3 or 5 stems of cut flowers should be the same cultivar and color, do not mix cultivars and colors. Containers will not be judged; however, they should be glass containers of a neutral color that won't tip over and of adequate size to display blooms. Containers will not be returned from State Fair.

DEPARTMENT G		DIVISION 770		ANNUALS & BIENNIALS	
PREMIUM	Purple \$2.50	Blue \$2.00	Red \$1.50	White \$1.00	
<i>*5 stems of a single variety (cultivar) unless noted in parenthesis.</i>					
CLASS 1	Aster		CLASS 13	Hollyhock (3 stems)	
CLASS 2	Bachelor Buttons		CLASS 14	Marigold	
CLASS 3	Bells of Ireland		CLASS 15	Pansy	
CLASS 4	Browallia		CLASS 16	Petunia	
CLASS 5	Calendula		CLASS 17	Salvia	
CLASS 6	Celosia (crested or plumed – 3 stems)		CLASS 18	Snapdragon	
CLASS 7	Cosmos		CLASS 19	Statice	
CLASS 8	Dahlia		CLASS 20	Sunflower (under 3" in diameter – 5 stems; 3" or more in diameter – 3 stems)	
CLASS 9	Dianthus		CLASS 21	Vinca	
CLASS 10	Foxglove		CLASS 22	Zinnia	
CLASS 11	Gladiolus (3 stems)		CLASS 23	Any other annual or biennial (under 3" in diameter – 5 stems; 3" or more in diameter – 3 stems) ( <b>DO NOT</b> duplicate entries in classes 1-22)	
CLASS 12	Gomphrena				

DEPARTMENT G		DIVISION 770		PERENNIALS	
PREMIUM	Purple \$2.50	Blue \$2.00	Red \$1.50	White \$1.00	
<i>*5 stems of a single variety (cultivar) unless noted in parenthesis.</i>					
CLASS 30	Achillea/Yarrow		CLASS 37	Liatris (3 stems)	
CLASS 31	Chrysanthemum		CLASS 38	Lilies (3 stems, NOT Daylilies)	
CLASS 32	Coneflower		CLASS 39	Platycodon	
CLASS 33	Coreopsis		CLASS 40	Rose (3 stems)	
CLASS 34	Daisy		CLASS 41	Rudbeckia/Black-eyed Susan	
CLASS 35	Gaillardia		CLASS 42	Sedum	
CLASS 36	Helianthus		CLASS 43	Statice	
			CLASS 44	Any other perennial (under 3" in diameter – 5 stems; 3" or more in diameter – 3 stems) ( <b>DO NOT</b> duplicate entries in classes 30-43)	

DEPARTMENT G		DIVISION 770		GARDEN COLLECTION	
PREMIUM	Purple \$2.50	Blue \$2.00	Red \$1.50	White \$1.00	
CLASS 45	<b>4-H Flower Garden Collection of 5 Different Flowers</b> – Display in a box or other holder not more than 18" in any dimension. (Boxes will not be returned from State Fair.) Each flower in the collection should be exhibited with the number specified for classes 1-44. Do not duplicate entries in classes 1-44 with any in the group collection.				

DEPARTMENT G		DIVISION 770		NOTEBOOKS & POSTERS	
PREMIUM	Purple \$2.50	Blue \$2.00	Red \$1.50	White \$1.00	
CLASS 50	<b>Flower Notebook</b> - Exhibit a notebook containing pictures of flowers. There must be at least 10 different species of annuals and/or biennials and 10 different species of perennials. The notebook must be the result of the current year's work. 4-H'ers may show more than one cultivar of the same species, but they will only count as one species. Pictures from garden catalogs, hand drawn pictures or photographs may be used. Each cultivar must be labeled with the correct common name and scientific name; the height and spread of the plant and the growing conditions (for example: needs full sun and dry sandy soil) the species prefers; bulbs may be included in a separate section and in addition to the above information, bulbs should also be labeled as spring or summer flowering. The 4-H member's name, age, full address, county and years in the project(s) must be on the back of the notebook.				
CLASS 51	<b>Flower Garden Promotion Poster</b> - Individual poster promoting flower gardening, size 14" x 22" either vertical or horizontal arrangement. Poster may be in any medium: watercolor, ink, crayon, etc. as long as it is not 3-dimensional. Posters using copyrighted material will not be accepted. Entry card must be stapled to the upper righthand corner. The 4-H member's name, age, full address, county and years in the project(s) must be on the back of the poster.				
CLASS 52	<b>Educational Flower Garden Poster</b> - Prepare a poster no larger than 14" x 22" x 2" (3-dimensional if needed) either vertical or horizontal arrangement illustrating a skill or project you have done or learned about in a 4-H flowers or houseplant project. One might show a special technique used or equipment incorporated in the garden. Refer to 4-H horticulture project manuals but use your own creativity. Entry card must be stapled to the upper righthand corner. The 4-H member's name, age, full address, county and years in the project(s) must be on the back of the poster				
CLASS 53	<b>Flower Gardening History Interview</b> - Neatly handwritten or typed account of a gardening history interview whose flower garden has inspired you. Maximum of 4 pages of text and 2 pages of pictures (include 1 picture of the person you interviewed) of their flower garden if the individual is still gardening. Protect with a clear report cover or small 3-ring notebook. The 4-H member's name, age, full address, county and years in the project(s) must be on the back of the report.				

**CONTAINER GROWN PLANT RULES**

- GENERAL RULES** – See GENERAL RULES – HORTICULTURE EXHIBITS
- ENTRY ELIGIBILITY** - Youth must be enrolled in the Growing Great Houseplants project to exhibit in classes 60-65.
- JUDGING CRITERIA** - The choice of container and soil quality will be considered in judging. Plants should be grown in the display container for a minimum of six weeks. Entries in Classes 63-65 must have been designed and planted by the 4-H member.
- IDENTIFICATION** - Each plant must be identified by listing the names on the entry tag or on a card attached to the container.
- SIZE LIMITS** - Container grown plants shall be in pots no greater than 12" in diameter and weigh no more than 10 pounds. Dish and desert gardens may be up to 12" in diameter but not more than 10 pounds. Terrariums may not weigh over 10 pounds. Any container grown plant in Classes 60-65 that exceeds the size limits will be lowered one ribbon placing.
- OTHER REQUIREMENTS** - For classes 60-64, exhibitors must provide a saucer to catch drainage water. The 4-H members name, age, full address, county and years in the project(s) must be on the bottom or back of the container and saucer.

DEPARTMENT G	DIVISION 770	CONTAINER GROWN PLANTS
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<b>PREMIUM</b>	<b>Purple \$2.50</b>	<b>Blue \$2.00</b>	<b>Red \$1.50</b>	<b>White \$1.00</b>
<b>CLASS 60</b>	<b>Flowering Potted Plants(s)</b> - Must be blooming for exhibition (Non-blooming plants will be disqualified)			
<b>CLASS 61</b>	<b>Foliage Potted Plant(s)</b> – Must be of all the same variety			
<b>CLASS 62</b>	<b>Hanging Basket</b> (of flowering and/or foliage plants)			
<b>CLASS 63</b>	<b>Dish Garden</b> – an open container featuring a variety of plants excluding cacti and succulents			
<b>CLASS 64</b>	<b>Fairy or Miniature Garden</b> – A miniature "scene" contained in an open container and featuring miniature or small, slow growing houseplants. The garden needs to have an imaginative theme and miniature accessories (i.e. bench, fence made from tiny twigs, small shell for a bath tub, etc.)			
<b>CLASS 65</b>	<b>Desert Garden</b> – An open/shallow container featuring cacti and/or succulents grown as houseplants.			
<b>CLASS 66</b>	<b>Terrarium</b> – A transparent container, partially or completely enclosed; sealed or unsealed			
<b>CLASS 901</b>	<b>Other Container Grown Plants</b>			
<b>CLASS 902</b>	<b>Original Flower Arrangement</b> - An original arrangement made with flowers from your gardening project <b>NO PURCHASED FLOWERS ACCEPTED.</b> Should not be larger than 12"x 12"			
<b>CLASS 903</b>	<b>Original Arrangement of Natural Materials</b> - An original arrangement made with a combination of native grasses, flowers, vines or other natural materials, should not be larger than 18" x 18"			
<b>CLASS 904</b>	<b>Original Arrangement with a Combination of Materials</b> - An original arrangement made with a combination of materials such as vegetables, fruits, herbs, and flowers from your gardening project or native materials, etc. <b>NO PURCHASED FLOWERS ACCEPTED,</b> should not be larger than 18" x 18"			

**VEGETABLES, HERBS & FRUITS GENERAL RULES**

- 1. GENERAL RULES** – See GENERAL RULES – HORTICULTURE EXHIBITS
- 2. ENTRY ELIGIBILITY** - Youth must be enrolled in the Everyone a Gardener and/or Gardening Unit 1-4 to exhibit in classes 201-294 and 901-904.
- 3. ENTRY LIMITS** - Youth may enter a maximum of 4 entries in classes 201-294
- 4. PREPARING ENTRIES** - Follow the guidelines in "Selecting and Preparing Vegetables, Herbs and Fruits for Exhibit" 4H226 (revised June 2013) (Available at: <https://johnsoncounty4h.org/static-exhibit-resources/>) when preparing entries for the fair.
- 5. CULTIVARS** - The cultivar or variety name must be included on all entry cards. Failure to identify the cultivar or variety will drop the entry one ribbon placing. Keep your seed package or identification label at planting time. Proper identification is the responsibility of the exhibitor not the Extension Staff or Office personnel.
- 6. CLASSIFICATION** - Exhibits entered under an incorrect class number or containing an incorrect number of flowers will be dropped one ribbon placing.
- 7. COLLECTION OF FIVE** – Vegetables or herbs entered in the collection of 5 cannot be the same cultivar as those entered in the single exhibits.

<b>DEPARTMENT G</b>	<b>DIVISION 773</b>				<b>VEGETABLES</b>
<b>PREMIUM</b>	<b>Purple \$2.50</b>	<b>Blue \$2.00</b>	<b>Red \$1.50</b>	<b>White \$1.00</b>	<b>Number to Exhibit</b>
		<b>Number to Exhibit</b>			<b>Number to Exhibit</b>
<b>CLASS 201</b>	Lima Beans	12	<b>CLASS 229</b>	Pumpkin	2
<b>CLASS 202</b>	Snap Beans	12	<b>CLASS 230</b>	Miniature Pumpkin	5
<b>CLASS 203</b>	Wax Beans	12	<b>CLASS 231</b>	Radish	5
<b>CLASS 204</b>	Beets	5	<b>CLASS 232</b>	Rhubarb	5
<b>CLASS 205</b>	Broccoli	2	<b>CLASS 233</b>	Rutabaga	5
<b>CLASS 206</b>	Brussels Sprouts	12	<b>CLASS 234</b>	Green Summer Squash	2
<b>CLASS 207</b>	Green Cabbage	2	<b>CLASS 235</b>	Yellow Summer Squash	2
<b>CLASS 208</b>	Red Cabbage	2	<b>CLASS 236</b>	White Summer Squash	2
<b>CLASS 209</b>	Carrots	5	<b>CLASS 237</b>	Acorn Squash	2
<b>CLASS 210</b>	Cauliflower	2	<b>CLASS 238</b>	Butternut Squash	2
<b>CLASS 211</b>	Slicing Cucumber	2	<b>CLASS 239</b>	Buttercup Squash	2
<b>CLASS 212</b>	Pickling Cucumber	5	<b>CLASS 240</b>	Other Winter Squash	2
<b>CLASS 213</b>	Eggplant	2	<b>CLASS 241</b>	Sweet Corn (in husks)	5
<b>CLASS 214</b>	Kohlrabi	2	<b>CLASS 242</b>	Swiss Chard	5
<b>CLASS 215</b>	Muskmelon/Cantaloupe	2	<b>CLASS 243</b>	Red Tomatoes (>2" diam.)	5
<b>CLASS 216</b>	Okra	5	<b>CLASS 244</b>	Roma/Sauce Tomatoes	5
<b>CLASS 217</b>	Yellow Onions	5	<b>CLASS 245</b>	Salad Tomatoes (<2" diam.)	12
<b>CLASS 218</b>	Red Onions	5			
<b>CLASS 219</b>	White Onions	5	<b>CLASS 246</b>	Yellow Tomatoes (>2" diam.)	5
<b>CLASS 220</b>	Parsnips	5			
<b>CLASS 221</b>	Bell Peppers	5	<b>CLASS 247</b>	Turnips	5
<b>CLASS 222</b>	Sweet (Non-Bell) Peppers	5	<b>CLASS 248</b>	Watermelon	2
<b>CLASS 223</b>	Jalapeno Peppers	5	<b>CLASS 249</b>	Edible Dry Beans	1 pint
<b>CLASS 224</b>	Hot(Non-Jalapeno) Peppers	5	<b>CLASS 250</b>	Gourds, mixed types	5
<b>CLASS 225</b>	White Potatoes	5	<b>CLASS 251</b>	Gourds, single variety	5
<b>CLASS 226</b>	Red Potatoes	5	<b>CLASS 252</b>	Other Vegetable – <b>Do Not</b> duplicate entries in classes	2, 5 or 12
<b>CLASS 227</b>	Russet Potatoes	5			
<b>CLASS 228</b>	Other Potatoes	5			
<b>CLASS 255</b>	<b>4-H Vegetable Garden Collection</b> - Five kinds of vegetables displayed in a box not more than 24" in any dimension (State Fair - Boxes will not be returned). Showmanship will be considered in judging, but plastic grass, cotton, figurines, etc. should not be used in exhibit boxes. Each vegetable in the collection should be exhibited with the number specified for individual class (201-252). Do not duplicate entries in classes 201-252 with any in the group collection.				
<b>CLASS 256</b>	<b>4-H Cultivar Vegetable Collection</b> - Vegetables entered in the collection are 5 cultivars from a single exhibit; for example, 5 cultivars of all types of peppers, squash, onions, tomatoes, etc. Display in a box not more that 24" in any dimension (State Fair - Boxes will not be returned). Showmanship will be considered in judging; but plastic grass, cotton, figurines, etc. should not be used in exhibit boxes. Each vegetable in the collection should be exhibited with the number specified for individual class (201-252).				

## HERB RULES

- 1. GENERAL RULES** – See VEGETABLE, HERBS & FRUITS GENERAL RULES
- 2. JUDGING CRITERIA** – Herbs will be judged using the same general criteria used for vegetables.
- 3. EXHIBIT GUIDELINES** – Those grown mainly for their seed such as dill and caraway, should be exhibited on a plate. Those grown for their leaves such as basil, parsley, etc. should be exhibited in a glass container of water. Potted herb plants will be disqualified and will not be judged.

DEPARTMENT G PREMIUM	Purple \$2.50	DIVISION 773		Red \$1.50	White \$1.00	HERBS Number to Exhibit
		Blue \$2.00	Number to Exhibit			
CLASS 260	Basil	5	CLASS 265	Parsley	5	
CLASS 261	Dill (dry)	5	CLASS 266	Sage	5	
CLASS 262	Garlic (bulbs)	5	CLASS 267	Thyme	5	
CLASS 263	Mint	5	CLASS 268	Any Other Herb	5	
CLASS 264	Oregano	5		(do not duplicate entries in classes 260-267)		
CLASS 269	<b>4-H Herb Garden</b> - Display of 5 different herbs. Displayed in a box or other holder not more than 18" in any dimension. Each herb in the collection should be exhibited with the number specified for classes 260-268. Do not duplicate entries in classes 260-268 with any in the group collection.					

## FRUIT RULES

- 1. GENERAL RULES** – See VEGETABLE, HERBS & FRUITS GENERAL RULES
- 2. JUDGING CRITERIA** – Fruits will be judged using the same general criteria used for vegetables. Fruit will be judged for the stage of maturity normal for that season and growing location. Emphasis will be placed on how well fruit approaches market quality.

DEPARTMENT G PREMIUM	Purple \$2.50	DIVISION 773		Red \$1.50	White \$1.00	FRUITS Number to Exhibit
		Blue \$2.00	Number to Exhibit			
CLASS 280	Strawberries	1 pint	CLASS 285	Other Small Fruit or Berries	1 pint	
CLASS 281	Grapes	2 bunches		(do not duplicate entries in classes 280-284)		
CLASS 282	Apples	5	CLASS 286	Other Fruits or Nuts	5	
CLASS 283	Pears	5		(do not duplicate entries in classes 280-284)		
CLASS 284	Wild Plums	1 pint				

DEPARTMENT G PREMIUM	Purple \$2.50	DIVISION 773		Red \$1.50	White \$1.00	NOTEBOOKS & POSTERS
		Blue \$2.00	Number to Exhibit			
CLASS 290	<b>Garden Promotion Poster</b> - Individual poster promoting vegetable or herb gardening, size 14" x 22" either vertical or horizontal arrangement. Poster may be in any medium: watercolor, ink, crayon, etc. as long as it is not 3-dimensional. Posters using copyrighted material will not be accepted. Entry card must be stapled to the upper righthand corner. The 4-H member's name, age, full address, county and years in the project(s) must be on the back of the poster					
CLASS 291	<b>Educational Vegetable and/or Herb Garden Poster</b> - Prepare a poster no larger than 14" x 22" x 2" (3-dimensional if needed) either vertical or horizontal arrangement illustrating a skill or project you have done or learned about in a 4-H vegetable gardening project. One might show a special technique used or equipment incorporated in the garden. Refer to 4-H horticulture project manuals but use your own creativity. Entry card must be stapled to the upper right hand corner. The 4-H member's name, age, full address, county and years in the project(s) must be on the back of the poster					
CLASS 292	<b>Vegetable and/or Herb Gardening History Interview</b> - Neatly handwritten or typed account of a gardening history interview whose vegetable or herb garden has inspired you. Maximum of 4 pages of text and 2 pages of pictures (include 1 picture of the person you interviewed) of their garden if the individual is still gardening. Protect with a clear report cover or small 3-ring notebook. The 4-H member's name, age, full address, county and years in the project(s) must be on the back of the report.					
CLASS 293	<b>Vegetable Seed Display</b> - Each display must include seeds representing the following families: Cucurbit, Brassica (cabbage), Solanaceous nightshade) and Legume (pea) families plus representatives from 5 other families. Group the seeds by family and types. Glue seeds or otherwise fasten clear containers of seeds to a board or poster mat board no larger than 22" x 24". Label each group and each individual vegetable type with the common and scientific names. Use only one variety or cultivar of each vegetable, except for beans where several examples of beans may be shown. Attach a card to the back of the display explaining why and how it is important to know which vegetables are related and site references on where the scientific name information was found. On the back, label with the 4-H'ers name, age, full address, county and years in the project(s). Information on vegetable family members can be obtained from your Extension Office.					
CLASS 294	<b>World of Vegetables Notebook</b> - Choose a favorite foreign cuisine and learn what vegetables and/or herbs are common to it (e.g. Mexican, African, Chinese, Italian, etc.). Include a report telling about minimum of 5 vegetables and/or herbs from each country chosen. Include the scientific and common names; pictures of the plants from your garden or seed catalogs; tell how they are grown; and how the foods are used. Also list a source for buying the seed or plants. Favorite recipes using some or all of the vegetables described may be included. Protect in a clear report cover or 3-ring notebook. The 4-H'ers name, age, full address, county and years in the project(s) must be on the back of the report cover or notebook.					

DEPARTMENT G PREMIUM	Purple \$2.50	DIVISION 775		Red \$1.50	White \$1.00	SPECIAL GARDEN PROJECT
		Blue \$2.00	Number to Exhibit			
CLASS 1	<b>Special Garden Project – Educational Exhibit</b> An educational exhibit based on what was learned in this project. Present information on a poster 14" x 22" either vertical or horizontal arrangement or in a clear plastic report cover. Fresh cut flowers or harvested vegetables should be entered in the appropriate class above. The 4-H exhibitor's name, age, full address, and county must be on the back of the poster or report cover.					
CLASS 2	<b>Special Garden Project – Fresh Cut Flowers or Harvested Vegetables</b> The current years' Special Garden Project fresh cut flowers or harvested vegetables should be entered in this class. Refer to classes 1-44 for quantity to exhibit if special garden project is a fresh cut flower. Refer to classes 201-252 for quantity to exhibit if special garden project is a vegetable.					

## GROW A BEAUTIFUL SPACE RULES

- 1. GENERAL RULES** – See GENERAL RULES – HORTICULTURE EXHIBITS

2. **LABELING OF EXHIBITS** - The 4-H member's name, age, full address, county, and years in the project(s) must be on the back of the notebook, poster, or portfolio.

DEPARTMENT G	DIVISION 777	GROW A BEAUTIFUL SPACE
PREMIUM	Purple \$2.50	Blue \$2.00
CLASS 401	Red \$1.50	White \$1.00
<b>CLASS 401</b>	<b>Grow a Beautiful Space Unit 1 Portfolio Notebook</b> – Create and complete 'Landscape Professionals & Design Principles' Unit 1 Portfolio. Present portfolio information in a three-ring binder. Give proper credit by listing the sources of photographs/images and information used.	
<b>CLASS 402</b>	<b>Establish Landscape Analysis Poster</b> - Take multiple photographs of a landscape that has been established for 10 or more years. Critique the landscape based on each of the design principles (order, unity, rhythm, balance, scale or proportion, and emphasis). Describe the spatial definition of the landscape and what different areas of the landscape "feel like". Include photos taken to support your critique. Describe what changes need to be made in the landscape to improve its characteristics and sense of space. Display on a poster mat board no larger than 22" x 28".	
<b>CLASS 403</b>	<b>Grow a Beautiful Space Unit 2 Portfolio Notebook</b> - Create and complete 'Landscape Plants & Materials' Unit 2 Portfolio. Present portfolio information in a three-ring binder. Give proper credit by listing the sources of photographs/images and information used.	
<b>CLASS 404</b>	<b>Landscape Renovation Poster</b> - Take multiple photographs of a landscape that doesn't quite look right because it doesn't reflect sound design principles. Select a landscape in which you can make at least three design recommendations. Identify how the design principles (order, unity, rhythm, balance, scale or proportion, and emphasis) could be better integrated into the landscape, and how plants or materials with specific features (size, form, color, or texture) could improve the space. Reduce the opacity of the images to 50-60 percent and sketch plants, structures, materials, and/or amenities that could improve the overall design over the original images. The poster should include the original image(s) and improved image(s) and include a short explanation of how the landscape design was improved. Display on a poster mat board no larger than 22" x 28".	
<b>CLASS 405</b>	<b>Estimating Dreams Poster</b> - Select a dream landscape as if money is not a consideration. Develop a plan drawing of the landscape. Draw landscape to scale. Identify the types of plants, structures, and amenities used in the landscape. Research the cost of the plants and amenities and the installation. Include the general cost of grading (if needed) and labor that could be associated with installation. Create a list, noting the plants that are included in the space. The quantities of plants and the structures, materials, or amenities and their cost should be included. Calculate the final total estimate. The poster should include the scale drawing of the landscape, identification of plants, structures and amenities, and cost and labor. Display on a poster mat board no larger than 22" x 28".	
<b>CLASS 406</b>	<b>Site Inventory &amp; Analysis Poster</b> - Make an unscaled drawing of the landscape you inventoried and analyzed. Develop two drawings: a site inventory and a site analysis. The site inventory and site analysis should be communicated through a combination of written notes, graphics symbols and photographs. Display on a poster mat board no larger than 22" x 28".	
<b>CLASS 407</b>	<b>Community Landscape Poster</b> - Identify a local community space (park, nursing home, school, county fairgrounds, etc.) that needs some landscape improvements. Work through the design process and develop a detailed plan of your improvements to the space. The plan should include design principles, functional and aesthetic factors, list of plants and materials and their costs, budget for materials, labor you have available for the project, and a timeline. Take photographs of the area and draw over the photos to illustrate your final ideas. Include photographs of the finished landscape if project ideas were carried out. Display on a poster mat board no larger than 22" x 28".	
<b>CLASS 408</b>	<b>Renovate the Outdoors Portfolio</b> - Select a space that you would like to redesign. The space can be at your home, a family member's or friend's house, or somewhere in your community. Develop a scaled base map of the site and locate the existing plants and structures in the landscape. Take photographs of the landscape. Evaluate the physical properties of the site and conduct an interview with the people who live there or use the space. Think about how you would change the space and develop a plan that would implement design elements into the space. Create different drawings that will move you through the design process. You will draw concept diagrams, form compositions, preliminary drawings, and the final design. Once the final design drawing is complete, use overlays on the original photographs to show how the landscape will look compared to how it looked in the photo you originally took of the landscape. Place photographs, interview notes, concept and program statements and drawings in a portfolio.	

## **SCIENCE, ENGINEERING & TECHNOLOGY**

**(AEROSPACE, COMPUTERS, ELECTRICITY, LEGOs, ROBOTICS, GEOSPATIAL, WIND ENERGY, WOODWORKING, WELDING, ATV & SMALL ENGINES, & VETERINARY SCIENCE)**

### **GENERAL RULES – SCIENCE, ENGINEERING & TECHNOLOGY**

- GENERAL RULES** – See GENERAL RULES
- ENTRY LIMITS** – Each exhibitor is limited to one entry per class.
- DISPLAY BOARDS** – Several classes require a display board which should be a height of 24" and not to exceed ¼" in thickness. A height of 23 7/8" is acceptable to allow for saw kerf (width) if two 24" boards are cut from one end of a 4' x 8' sheet of plywood. Nothing should be mounted within ¾" of the top or bottom of the board.
- DEMONSTRATION BOARDS** – Fabricated boards such as plywood, composition board, or particle-type lumber may be used for demonstration displays. Demonstration boards should be sanded and finished to improve their appearance. The finish on a demonstration board will be judged as a woodworking exhibit. Demonstration boards should include an overall title for the display, plus other necessary labeling.
- REPORTS** – All reports should be clearly written or typed and enclosed in a clear, plastic cover. The reports should be attached securely to the display.

## **AEROSPACE**

### **AEROSPACE RULES**

- GENERAL RULES** – See GENERAL RULES – SCIENCE, ENGINEERING & TECHNOLOGY
- ROCKET MOUNTING** – Rockets must be supported substantially to protect the rocket from breakage. Rockets are to be mounted on a base that has dimensions equal or less than 12" x 12" and the base should be ¾" thick. No metal bases. If the rocket fins extend beyond the edges of the required base (12" x 12", then construct a base that is large enough to protect the fins. The base size is dictated by the size of the rocket fins. The rockets must be mounted vertically. Please do not attach sideboards or back drops to the displays. In addition, a used engine or length of dowel pin is to be glued and/or screwed into the board and extended up into the rocket's engine mount to give it added stability.
- PREPARATION** – Rockets must be equipped as prepared for launching, with wadding and parachute or other recovery system.
- DISQUALIFICATION** – Rockets entered with live engines, wrong base size or sideboards will be disqualified. Complete factory assembled rockets will not be accepted at the State Fair.
- REPORTS** – A report, protected in a clear plastic cover, must include: 1) rocket specification, 2) a flight record for each launching (weather, distance, flight height), 3) number of launchings, and 4) flight pictures. The flight record should describe engine used, what the rocket did in flight,