



Department 6 4-H CLUBS

4-H EXHIBIT, DEMONSTRATION & CONTEST GUIDELINES

The Missouri 4-H Center for Youth Development is under the direction of University of Missouri Extension

"Learning By Doing" is the basis of 4-H work, and each year thousands of young Missourians between the ages of 8 and 18 do just that. 4-H members make the items displayed in the Missouri State Fair 4-H Building. **The Missouri State Fair provides a showcase for the skills and knowledge that members have gained through their 4-H experiences.**

Besides developing practical skills and knowledge, 4-H members are developing "life skills". Under the leadership of adult volunteers, 4-H members learn to make sound decisions, work cooperatively in groups and develop a sense of self-worth and accomplishment. Missouri 4-H also fosters leadership, as older youth share their talents with younger 4-H members.

We salute all Missouri 4-H members, volunteers and families, and particularly those whose "learning by doing" experiences are represented at the 2020 Missouri State Fair.

ALL ITEMS IN THE 4-H BUILDING HAVE BEEN JUDGED AS COUNTY CHAMPIONS. A SET NUMBER OF BEST OF SHOW PROJECTS WILL BE SELECTED.

SUPERINTENDENTS -

Livestock - Ty Peckman (573-882-3835 or 573-882-1441)

4-H Building - Dustin Oehl and Maria Calvert (573-882-8835 or 573-882-1441)

The Missouri State Fair does not guarantee premium money, merchandise, prizes or special awards. Because the State Fair Commission is without constitutional or statutory authority to borrow money for its operation, it reserves the right to prorate premium money because of state budget restraints.

4-H BUILDING GUIDELINES

- Items made by 4-H members should reflect the skills they have learned in their 4-H project, the needs and interests of the 4-H'er, and quality workmanship. Use the 4-H project literature, "Clover", and suggestions listed in this guide for ideas or criteria.
- 4-H members may display only in projects in which they are enrolled in the current 4-H year. Items must be made in the current year and must be the work of the 4-H member submitting the item.
- Items must be of blue-ribbon quality.
- Items are displayed at the risk of the 4-H member. The 4-H staff, Extension Centers and Missouri State Fair are not responsible for loss or damage to items. Building staff do make ongoing efforts to protect all projects while they are physically in the State 4-H Building, including set-up volunteer training and strategies to keep fairgoers from touching items (e.g. chain barriers and "DO NOT TOUCH THE PROJECTS" announcements).
- A member is limited to two items in the 4-H Building and one demonstration in the 4-H division.
- All 4-H Building items must be registered either on the Missouri State Fair voucher computer program or on Fair computation program report. Special instructions for the preparation of these vouchers will be provided to 4-H staff.
- The following items will be displayed in special areas that allow fairgoers to handle the exhibits. The 4-H member's region, county and name should be permanently affixed to items. These items will be accepted from any project.
 - *Notebook – Youth should select 1 page that represents their notebook. The page should be in a plastic sleeve to protect it while on display.
 - *Posters – no larger than 14" X 22", flat only, 3D items shall not be more than 1/8" above the surface of the poster board.
- All exhibits should reflect the educational learning gained from project work. This includes notebooks, file cards, photo displays, posters, or educational displays. Be sure to mark the exhibit tag with Project number and description. Size restrictions may apply. See additional information in Rule #9.
- Because of display space, available cases and number of exhibits in certain projects, dimension criteria is specified. Items which do not comply with size or other specifications will not be displayed or receive a ribbon. There should be no posters, notebooks, or patterns attached to projects. Scrapbooks made in all projects should follow guidelines listed for Scrapbooking under Arts and Crafts.
 - Educational display** - Educational displays should not exceed 12 inches in height, 12 inches in depth, and 12 inches in width. Can include three-dimensional items and must be free standing. **(Posters with items taped to them do not qualify as educational displays. Science fair display boards are too large.)**
 - Working models** - These exhibits should show how things actually work (cutaway-sections of motors or other mechanical items) or can be

used to help people identify parts, such as those of a motor or engine. Working models should require floor space no larger than 24" x 24".

- Perishable items such as food, vegetables, crops and home grown items will not be returned after the Fair. Perishable items will be discarded throughout the fair when quality has deteriorated. If a decorated cake is made with fondant and the fondant fails, the cake will be removed from display. If an item has is no longer suitable for exhibit, it will be removed and the tag which a card stating it's removal will be left in its place.
- Fire Hazard Prevention: Any exhibits using batteries, such as circuit boards or robots should not connect the wires to the battery; rather the wires should be taped behind the battery. Another option: Do not attach a battery, but indicate "battery goes here".
- All 4-H Building items must be checked in and out of the 4-H Building by State Fair 4-H personnel during established times. **(No exceptions will be made.) No early removal or checkout of items is permitted.** Items which are not properly checked in or out of the 4-H Building will not be awarded ribbons.
- Limited space is available for large exhibits. You must contact the State 4-H office at 573-882-1441 prior to 8/1/20 for approval of large, oversized exhibits. Determination of items to be showcased will be left to the discretion of the 4-H Building Co-Superintendents, based on available space, prior approval and the safety of fairgoers. Submitting a photograph of the items is encouraged.
- Photographs of items too large or fragile: This is restricted only to large items such as welding projects or large woodworking items like furniture; fragile items such as delicate ceramic work. **It is not intended as a substitute category for bringing or mailing a project.** All photos of projects should be a single 8x10 photo, project owner may be in the photo. Counties should send photos individually, rather than making a poster board of all the photos. The tag should be attached. Indicate on the voucher that this project is too large or fragile to come and describe project/item. These photographs will not be returned. Do not send photos of items that would be disqualified if sent to the fair.
- All items must have a Missouri State Fair tag securely fastened in a place visible to fairgoers. Remove all county or regional ribbons. **Two identification labels should be securely attached, sewn or safety pinned to each item, 1 on the outside/front of the item and a second one behind, underneath or inside (e.g., textile items such as clothing or knitted items).** Multiple piece exhibits should be fully labeled and connected (Examples: jacket and skirt; rocket and rocket launcher). Each item in a multi-piece exhibit should be fully labeled and numbered to prevent items from being separated. Example: Each item in a 3 piece exhibit would be labeled with a State Fair tag and the notation, 1 of 3, 2 of 3, 3 of 3.
- Counties who mail or ship their items to the State Fair should enclose one printed copy of the State Fair Exhibit List and a digital file on a storage device (e.g., flash drive) with the voucher in the box with the items, and mail one copy separately to: 4-H Superintendent, 4-H Building, Missouri State Fair, 2503 W. 16th St., Sedalia, MO 65301. Use sturdy boxes. **Do not ship cakes or items in glass containers.** All items must be properly tagged and ready for display. Counties may ship no more than five boxes of exhibits and **must enclose CASH to cover the return shipping or mailing costs.**

PROJECT LIST

All exhibits should reflect the educational learning gained from project work. Check specific projects for exhibit guidelines.

Class

AEROSPACE

AS811 AEROSPACE 1
AS812 AEROSPACE 2
AS813 AEROSPACE 3
AS814 AEROSPACE 4

Project suggestions: model rocket, model airplane, identify the parts and what they do; create a display comparing birds and planes; make a display of kites and describe how they fly.

AGRONOMY

AG982 FIELD CROPS 1
AG983 FIELD CROPS 2
AG984 FIELD CROPS 3

Project suggestions: sample of field crops, educational displays on crop growth, pest management, crop identification

AMPHIBIANS AND REPTILES

AR611 AMPHIBIANS AND REPTILES: no live animals

Project suggestions: Habitat display, poster or educational display about care of animal, feeding, history, etc.

ARTS AND CRAFTS

Scrapbooking exhibits should be a 1 page/1 side representative of the complete scrapbook.

- Size not to exceed 12"x12".
- All pages should be in clear protective sleeve or clear zipper bag.
- Do not frame scrapbook page.
- If more than one page is submitted for an exhibit, the exhibit will be

disqualified.

- AC311 ARTS AND CRAFTS
 AC312 ADVANCED VISUAL ARTS 1
 AC313 ADVANCED VISUAL ARTS 2
 AC314 ARTS AND COMPUTERS
 AC315 SCRAPBOOKING

Project suggestions: Screen printing, watercolor painting, oil or acrylic painting, computer art, stenciling, calligraphy, stained glass, clay sculptures, weaving, ceramics, leather work, handmade jewelry.

BEEF

- BF121 BEEF 1
 BF122 BEEF 2
 BF123 BEEF 3
 BC135 BUCKET CALF

Project suggestions: Rope halters, lead ropes, feed bunk, grooming items, educational display of breeds, parasites, feed rations

BEEKEEPING

- EN924 BEE KEEPING 1
 EN925 BEE KEEPING 2
 EN926 BEE KEEPING 3

Project suggestions: Bee keeping supplies, honey, honeycombs, bee hive box with parts labeled.

BICYCLE

- BY731 BICYCLE 1
 BY732 BICYCLE 2

Project suggestions: Poster with bicycle parts labeled, bike safety suggestions, benefits of bicycling

BUTTERFLY WINGS

- EN927 BUTTERFLY WINGS

Project suggestions: educational display on butterfly species, habitat, monitoring.

CAKE DECORATING

Decorated Cakes - Cakes should not exceed 13" in height or at the base. Cake boards should not exceed 1" margin on each side of cake form and is considered in the 13" base requirements. Cake boards should be sturdy, especially if using a cake pan. The use of styrofoam forms is recommended.

May only use Royal Icing, Rolled Fondant or commercial product that will harden and preserve the decorated cake. Cakes may only contain non-perishable items. They should not be real cakes, use butter cr me icing or tube/gel icing, or include items such as pineapple tops or real flowers. Adding Tylose powder to fondant will help it hold its shape in humidity.

Cakes with candy decorations are allowed; however, avoid using candy that melts (e.g., M & Ms, candy canes, etc.). Cakes that have melting items will be removed from display. **No more than six (6) per county total - all levels.**

- CD361 CAKE DECORATING 1
 CD362 CAKE DECORATING 2
 CD363 CAKE DECORATING 3

CAREER EXPLORATIONS

- CE100 CAREER EXPLORATIONS

Project suggestions: educational display on education, careers, a specific job

CATS

- CA177 CAT CARE 1
 CA178 CAT CARE 2
 CA179 CAT CARE 3

Project suggestions: emergency care kit, educational display of breeds, care, feed, health issues, or training

CIVIC ENGAGEMENT

- CI200 PUBLIC ADVENTURES

Project suggestions: Educational display and poster exhibits may include, but are not limited to: community service, volunteering, sportsmanship, stewardship, political action

CLOTHING

Be sure to double tag all clothing items.

- CL521 SEWING 1
 CL522 SEWING 2
 CL523 SEWING 3
 CL524 CLOTHES YOU BUY

Project suggestions: A constructed garment or accessory based upon level of enrollment. Blouse or shirt; skirt or jumper; Dress; Shorts, pants, culottes, or other one-piece garment with a crotch seam; Jacket, coat or cape; Outfit of two or more pieces; Sleepwear, robe or swim wear.

CLOWNING

- CW231 CLOWNING

Project suggestions: Make-up display, costume, poster or educational display of clowning history, famous clowns, etc.

COMMUNICATIONS

- CM237 COMMUNICATIONS 1
 CM238 COMMUNICATIONS 2
 CM239 COMMUNICATIONS 3

Project suggestions: educational display on verbal, nonverbal, unique types of communication

COMPUTERS and PROGRAMMING

- CP895 SCRATCH
 CP896 ALICE
 CP897 OTHER PROGRAMMING LANGUAGES or COMPUTER PROGRAMS

Project suggestions: Write a computer program, create a poster showing a website you have created, educational display of the history of computers or programming.

CONSUMER SAVVY

- CS431 CONSUMER 1
 CS432 CONSUMER 2
 CS433 CONSUMER 3

Project suggestions: Making an information chart comparing cost and value of 3 or more items related to the home.

CROCHET

- CR321 CROCHET

Project suggestions: Garment, accessory or home goods item. Hat, gloves, hot pad, sweater, blanket, etc.

DAIRY (Also see Goats)

- DA131 DAIRY 1
 DA132 DAIRY 2
 DA133 DAIRY 3
 DA134 JUDGING DAIRY CATTLE
 BC135 BUCKET CALF

Project suggestions: educational display and poster exhibits may include, but are not limited to the study of: the economic impact of dairy cattle to Missouri and the nation; general animal behavior, health, nutrition; genetics and breeding; or promotion and marketing, bio-security, careers in the dairy industry. Other exhibits may include, but are not limited to the following examples: rope halters, lead ropes, feed bunks, hot boxes for new born livestock hay feeders, stands for grooming items, etc.

DOGS

- DG171 DOG 1
 DG172 DOG 2
 DG173 DOG 3

Project suggestions: Educational display and poster exhibits may include, but are not limited to: dog health, training methods, nutrition, grooming, or breed types. Create an emergency care kit for your pet and place all essential items in a sturdy container (e.g., duffle bag, backpack or durable plastic container) that you can carry easily.

ELECTRICITY

Items should be made in accordance with the National Electrical Code. Consult power suppliers or electricians for code requirements. Battery-operated items are also eligible items. Batteries should be disconnected or have a piece of black electrician tape placed on the ends.

- EL831 ELECTRICITY 1
 EL832 ELECTRICITY 2
 EL833 ELECTRICITY 3
 EL834 ELECTRICITY 4

Project suggestions: electrical circuits, motors, electronics

ENERGY

- EG861 POWER OF THE WIND

Project suggestions: educational displays on energy, energy transformation, energy development

ENTOMOLOGY

Suggested box size is 18" long X 24" wide X 3 1/2 inches deep to fit in the display racks. All boxes must have a clear display lid; no open boxes allowed. The insects should be named, labeled and mounted so the boxes can be displayed horizontally. Securely fasten display cover with tape or screws. If a member's entomology collection is displayed in more than one box, the member may send only one box for display.

- EN921 ENTOMOLOGY 1
 EN922 ENTOMOLOGY 2
 EN923 ENTOMOLOGY 3

Project suggestions: displays of native/non-native insects, educational display on insect habitat, insect management

ENTREPRENEURSHIP

- EP442 ENTREPRENEURSHIP 1
 EP443 ENTREPRENEURSHIP 2
 EP444 ENTREPRENEURSHIP 3

Project suggestions: item made as part of a small business, business plan, marketing materials

ENVIRONMENTAL SCIENCE

EE914 EXPLORING YOUR ENVIRONMENT (ECOSYSTEM SERVICES)

EE915 EXPLORING YOUR ENVIRONMENT (EARTH'S CAPACITY)

Project suggestions: educational displays on pollution, ecosystems, natural sciences and technology

EXPLORING 4-H

EX261 EXPLORING THE TREASURES OF 4-H

FILMMAKING

FM270 FILMMAKING

Project suggestions: educational display on making a film, set design, directing

FINANCIAL LITERACY

FL421 FINANCIAL LITERACY 1

FL422 FINANCIAL LITERACY 2

Project suggestions: sample budget, educational display on goal setting, financial management plan

FOODS/NUTRITION/PRESERVATION

1. Food must be of reasonable quality to keep more than a week. Do not send food items which will spoil quickly such as casseroles, pizza, cream or fruit pies, items made with cream cheese, etc.
2. Submit food items on paper or disposable plates. Plastic wrap will be removed so drying of the food will extend display life of the product, and food items will be removed from plates and displayed as part of a bakery display. Food items will be displayed with their tags. **Please do not send expensive or keepsake containers!**
3. No samples or recipes are needed with any food items.
4. Perishable food items do not need a second identification label. Perishable food items will be displayed with their tags.
5. Biscuits, cookies, muffins and other small items should be four per plate. Non/Undecorated cakes should be displayed in mini-versions (portions of 1/3 to 1/4 of a larger total product.)

FN551 FOODS 1

FN552 FOODS 2

FN553 FOODS 3

FN554 FOODS 4

FS566 FOOD SCIENCE 1

FS567 FOOD SCIENCE 2

FS568 FOOD SCIENCE 3

FS569 FOOD SCIENCE 4

FN557 INTERNATIONAL FOODS

FN561 MICROWAVE MAGIC 1

FN562 MICROWAVE MAGIC 2

FN563 MICROWAVE MAGIC 3

FN564 MICROWAVE MAGIC 4

FP500 FREEZING

FP501 DRYING

FP502 BOILING WATER CANNING

FP503 PRESSURE CANNING

BREADS: No samples are needed with any food item. Bread products may be displayed in mini or full size versions. Please send items on disposable plates only, unless it is a gift package. **Please do not send expensive or keepsake containers!**

FN581 BREADS 1

FORESTRY

FO931 FORESTRY 1

FO932 FORESTRY 2

FO933 FORESTRY 3

Project suggestions: tree identification display via leaves, bark, or wood, educational display on forest habitats

GARDENING (fruits & vegetables) - see HORTICULTURE

GEOLOGY

Suggested box size is 18" long X 24" wide X 3 ½ inches deep to fit in the display racks. All boxes must have a clear display lid; no open boxes. The rocks should be named, labeled and mounted so the boxes can be displayed horizontally. Securely fasten display cover with tape or screws. If a member's geology collection is displayed in more than one box, the member may send only one box for display.

GG941 GEOLOGY: any item made

Project suggestions: rock collection, educational display on geological features

GEOSPATIAL

GS991 GEOSPATIAL 1

GS992 GEOSPATIAL 2

GS993 GEOSPATIAL 3

Project suggestions: educational displays on GPS, GIS, topographical maps

GLOBAL EDUCATION

GE221 GLOBAL EDUCATION

Project suggestions: items made representing other cultures, educational displays on foreign cultures, nations

GOATS

GA125 MEAT GOATS 1

GA126 MEAT GOATS 2

GA127 MEAT GOATS 3

GA136 DAIRY GOATS 1

GA137 DAIRY GOATS 2

GA138 DAIRY GOATS 3

Project suggestions: Rope halters, lead ropes, feed bunk, grooming items, educational display of breeds, parasites, feed rations

HEALTH/FITNESS

HF711 BOWLING

HF712 GOLF

HF771 FIRST AID

HF772 STAYING HEALTHY

HF773 KEEPING FIT

HF775 MOVE ACROSS MISSOURI (MOVE)

Project suggestions: healthy living kits, education displays on sportsmanship, health, exercise

HOME ENVIRONMENT

HE471 HOME ENVIRONMENT 1

HE472 HOME ENVIRONMENT 2

HE473 HOME ENVIRONMENT 3

HE474 HOME ENVIRONMENT 4

Project suggestions: interior design plans/examples

HORSE

HS140 HORSELESS HORSE & HORSE KNOWLEDGE

HS141 HORSE RIDING

Project suggestions: bridles, lead ropes, feed bunk, grooming items, educational display of breeds, parasites, feed rations

HORTICULTURE

FLOWERS - Live plants or cut specimens must be displayed in a container no larger than 8" in diameter. May be fresh or dried.

HO961 FLORICULTURE 1: any item grown or made

HO962 FLORICULTURE 2: any item grown or made

HO963 FLORICULTURE 3: any item grown or made

HO964 FLORICULTURE 4: any item grown or made

GARDENING (fruits and vegetables) The number in parentheses is the number of items displayed. The 4-H'er must have grown the vegetables. The following guidelines should be followed:

1. Vegetables must be of reasonable quality to keep more than a week.
2. Use disposable containers to transport the items.
3. Vegetables will be displayed as a large farmer's market display.

Beets (4)	Cantaloupe (1)
Cucumbers (slicing) (4)	Egg Plant (2)
Onions - dry (4)	Peppers (4)
Potatoes (4)	Pumpkin (1)
Summer Squash (2)	Tomatoes (4)
Watermelon (1)	Winter Squash (1)
Other Vegetables (1 for larger and 4 for smaller produce)	

HO971 GARDENING 1: any item grown or made

HO972 GARDENING 2: any item grown or made

HO973 GARDENING 3: any item grown or made

HO974 GARDENING 4: any item grown or made

Project suggestions: floral arrangements, produce, plants, educational displays on maintaining a garden, creating arrangements

KNITTING

KN331 KNITTING

Project suggestions: Garment, accessory or home goods item. Hat, gloves, hot pad, sweater, blanket, etc.

LANDSCAPE DESIGN

LD975 LANDSCAPE DESIGN 1

LD976 LANDSCAPE DESIGN 2

LD977 LANDSCAPE DESIGN 3

Project suggestions: design plan, educational display on selecting plants, landscaping elements, etc.

LEADERSHIP

LD271 LEADERSHIP 1

LD272 LEADERSHIP 2

LD273 LEADERSHIP 3

Project suggestions: educational display on facilitation techniques, leadership methods, styles, etc.

LIVESTOCK JUDGING

LJ117 LIVESTOCK JUDGING

Project suggestions: educational display on characteristics, judging skills, giving reasons, etc.

MEATS

Only those hams and bacons selected at county fair as State Fair 4-H exhibits should be checked in at the 4-H Building. Hams and bacons will be dually enrolled in the Youth Class of the Country Ham and Bacon Show and may become eligible for sale if selected as Champion. The 4-H member is required to complete all open division entry forms available in the Premium Guide at www.mostatefair.com, which should accompany the project at check-in and pay the \$1.00 entry fee and \$2.00 processing fee which is required in the Agriculture Building. Checks must be made payable to "Missouri State Fair". Only 4-H hams and bacons should be checked in and out of the 4-H Building. Hams checked in through the 4-H Building will be displayed in the 4-H Building. Exception - Grand or Reserve Champion Hams. Per open division rules, ham weights accepted are a minimum of 12 pounds and maximum of 30 pounds. 4-H bacon will be displayed in the Agriculture Building.

ME114 COUNTRY CURED BACON

ME115 COUNTRY CURED HAM

ME116 MEAT EVALUATION PROJECT

Project suggestions: cured bacon/ham, educational displays on meat curing, quality, retail, etc.

OUTDOOR ADVENTURES

OA761 OUTDOOR 1 (HIKING)

OA762 OUTDOOR 2 (CAMPING)

OA763 OUTDOOR 3 (BACKPACKING EXPEDITIONS)

Project suggestions: backpacking kits, hiking supplies, diagrams on pitching a tent, etc.

PETS

PE101 PETS 1

PE102 PETS 2

PE103 PETS 3

PE104 GUINEA PIGS (Cavies)

Project suggestions: Educational display and poster exhibits may include, but are not limited to: health, training methods, nutrition, grooming, or breed types. Create an emergency care kit for your pet and place all essential items in a sturdy container (e.g., duffel bag, backpack or durable plastic container) that you can carry easily.

PHOTOGRAPHY

REQUIREMENTS:

1. Photos must be mounted on a rectangular 8"x10" solid mounting surface.
2. The preferred surface is matte board. It can be the color of the photographer's choice.
3. The photographs mounted on each 8"x10" matte board must be 8"x10" or smaller.
4. The mounted photo should be placed in a clear plastic 8 ¼ x 10 ½ inch sleeve.

PLEASE NOTE:

Solid requires that there are no cutouts (or other holes) in the matte board, either around or behind the photo (for example, a surface shaped like a picture frame is not a solid mounting surface).

Sleeves are intended to protect these special exhibits from handling, dust and humidity

DIGITAL EDITING RULES

For State Fair 4-H photography exhibits, certain types of editing are permissible and others are not.

- 1) 1. Altering (editing to change the contents of) a photo is not permitted for State Fair exhibits.
 - Examples include adding a sunset or object, removing someone from the shot, airbrushing to cover a bad complexion, giving a photo subject dinosaur eyes, etc.
- 2) Enhancing (editing to improve the existing qualities of) a photo is permitted.
 - Examples include cropping the photo, eliminating red-eye and changing levels of saturation, brightness, contrast, etc.

*Include name, address and county on the back of each photo. State Fair 4-H photography exhibit guidelines will be posted at <http://4h.missouri.edu/statefair/main>. No more than ten (10) per county total.

PH351 PHOTOGRAPHY 1

PH352 PHOTOGRAPHY 2

PH353 PHOTOGRAPHY 3

POULTRY

PO151 POULTRY 1

PO152 POULTRY 2

PO153 POULTRY 3

Project suggestions: educational display of breeds, parasites, feed rations

PUBLIC SPEAKING

PS242 PUBLIC SPEAKING

Project suggestions: educational display on elements of speaking such as tone, appearance, posture, etc.

QUILTING

QU341 QUILTING 1

QU342 QUILTING 2

QU343 QUILTING 3

QU344 QUILTING 4

QU345 QUILTING 5

QU346 QUILTING 6

Project suggestions: children's quilt, bed quilt, pot holders, coasters, etc.

RABBITS

RB111 RABBITS 1

RB112 RABBITS 2

RB113 RABBITS 3

Project suggestions: grooming items, educational display of breeds, parasites, feed rations

ROBOTICS

RO881 JUNK DRAWER ROBOTS 1

RO882 JUNK DRAWER ROBOTS 2

RO883 JUNK DRAWER ROBOTS 3

RO884 ROBOTICS 1 - with EV3

RO885 ROBOTICS 2 - EV3N More

RO886 ADDITIONAL ROBOTICS PLATFORMS

Project suggestions: constructed robots, educational displays on coding, building, competition, etc

SELF DETERMINED

SD950 SELF-DETERMINED - Citizenship, Leadership and Communication

SD951 SELF-DETERMINED - Healthy Living

SD952 SELF-DETERMINED - Science

SHEEP

SH161 SHEEP 1

SH162 SHEEP 2

SH163 SHEEP 3

Project suggestions: Rope halters, lead ropes, feed bunk, grooming items, educational display of breeds, parasites, feed rations

SHOOTING SPORTS

No live ammunition and arrow points should be removed.

SS740 SHOOTING SPORTS SAFETY

SS741 ARCHERY

SS742 AIR (BB and/or Pellet) RIFLE

SS743 SMALLBORE RIFLE

SS744 AIR PISTOL

SS745 SHOTGUN

SS747 SMALLBORE PISTOL

SS748 MUZZLELOADING

SS749 HUNTING AND OUTDOOR SKILLS

SS750 WESTERN HERITAGE & COWBOY SHOOTING

Project suggestions: targets, holsters, educational displays on safety or skills in given disciplines, etc.

SMALL ENGINES

SE851 SMALL ENGINES 1

SE852 SMALL ENGINES 2

SE853 SMALL ENGINES 3

Project suggestions: small engines for lawnmowers, model airplanes, ATVs, educational displays on motor construction, maintenance, etc.

SOIL AND WATER SCIENCE

SW916 SOIL AND WATER SCIENCE 1

SW917 SOIL AND WATER SCIENCE 2

SW918 SOIL AND WATER SCIENCE 3

Project suggestions: soil sampled displays, educational displays on water quality assessment, soil health, water and soil conservation, etc.

SPORT FISHING

SF725 SPORT FISHING 1

SF726 SPORT FISHING 2

SF727 SPORT FISHING 3

Project suggestions: lures, knots, flies, reels, rods, educational displays on fish identification, habitat, fishing techniques, etc.

SWINE

SW181 SWINE 1

SW182 SWINE 2

SW183 SWINE 3

Project suggestions: educational display of breeds, parasites, feed rations

THEATRE ARTS

TA251 THEATRE ARTS 1
TA252 THEATRE ARTS 2
TA253 THEATRE ARTS 3

Project suggestions: costume, props, educational displays on theatre performance

TRACTOR

AT820 TRACTOR 1
AT821 TRACTOR 2
AT822 TRACTOR 3
AT823 TRACTOR 4

Project suggestions: educational displays on engine operation, hydraulic systems, electrical systems, safe operation

VETERINARY SCIENCE

VS191 VETERINARY SCIENCE 1
VS192 VETERINARY SCIENCE 2
VS193 VETERINARY SCIENCE 3

Project suggestions: veterinary instruments, educational displays on diagnosis, treatment, prevention, etc.

WEATHER AND CLIMATE SCIENCE

WC934 WEATHER AND CLIMATE SCIENCE 1
WC935 WEATHER AND CLIMATE SCIENCE 2
WC936 WEATHER AND CLIMATE SCIENCE 3

Project suggestions: educational displays on the water cycle, weather phenomena, ecological climate systems

WELDING

Limited space is available for large exhibits. You must contact the State 4-H office at 573-882-1441 prior to 8/1/20 for approval of large, oversized exhibits. Determination of items to be showcased will be left to the discretion of the 4-H Building Co-Superintendents, based on available space, prior approval and the safety of fairgoers. Submitting a photograph of the items is encouraged.

WE846 WELDING

Project suggestions: decorative items, chains, tools, etc.

WILDLIFE

WI720 WILDLIFE CONSERVATION 1
WI721 WILDLIFE CONSERVATION 2
WI722 WILDLIFE CONSERVATION 3

Project suggestions: educational displays on wildlife identification, habitat, management, conservation, etc.

WOODWORKING

WO871 WOODWORKING 1
WO872 WOODWORKING 2
WO873 WOODWORKING 3
WO874 WOODWORKING 4

Project suggestions: decorative items, small furniture, cutting boards, pens, etc.

DEMONSTRATIONS

General and working demonstrations are not judged at the State Fair.

1. Demonstrations must have earned a blue ribbon at a county achievement event and have been selected for State Fair.
2. 4-H Staff must approve general and working demonstration in 4HOnline as close to July 15 as possible.
3. A member is limited to ONE DEMONSTRATION in the 4-H Building.
4. Team Demonstrations may consist of no more than three (3) members. An exception is made for skits presented in Theatre Arts project. Theatre Arts may consist of no more than seven (7) members. Please refer to specialty contests which may have stricter rules.
5. Demonstrations involving firearms, live animals, open flames or other unusual circumstances must call Patty at 573-882-1441 in the State 4-H Office for pre-approval.
6. Each 4-H member eligible to demonstrate will need to select date preference in 4HOnline. The demonstration schedule is posted on the Missouri 4-H website (<http://mo4h.missouri.edu>) after August 1.
7. Demonstrators must provide their own ingredients, equipment, extension cords and props. A three-prong electric outlet, demonstration table and easel will be provided by the State Fair 4-H Building staff.
8. The Missouri Sheep Producers may provide special monetary recognition for demonstrators presenting a general or working demonstration about lambs, wool or sheep. The title of the demonstration must include the word sheep to qualify. May be enrolled in any project.

4-H Electric Theatre Demonstrations - Sponsor: Missouri 4-H

Number of entries per county: Eight (8)

Judging Criteria: Not applicable

Age: Any age 4-H member

Length of time: Should not exceed 10 minutes

Project enrollment: May be enrolled in any 4-H project.

Other: Demonstration must be done inside Electric Theatre and use electricity.

4-H General Demonstrations - Sponsor: Missouri 4-H

Number of entries per county: Eight (8)

Judging Criteria: Not applicable

Age: Any age 4-H member

Length of time: 5-10 minutes

Project enrollment: May be enrolled in any 4-H project.

Other: General demonstrations are those where the 4-H member shows and tells others how to do something. They are more formal than working demonstrations; therefore, require the use of a microphone.

Working Demonstrations - Sponsor: Missouri 4-H

Number of entries per county: Four (4)

Judging Criteria: Not applicable

Age: Any age 4-H member

Length of time: Approximately 30 minutes

Project enrollment: May be enrolled in any 4-H project.

Other: Working demonstrations are more casual than General Demonstrations. Working demonstrators do not use a microphone or stage. Youth work on a project while responding to fairgoers questions. A poster giving the topic of the demonstration and the 4-H member's name can be displayed on the table during the working demonstration.

SPECIALTY CONTESTS

Pork Contest - Sponsor: Missouri Pork Association - Thursday, August 13

Number of entries per county: Six (6) demonstrations per county, with two from age 8-10, two from age 11-13, and two from age 14 or older. Three places are awarded in each age category.

Judging Criteria: Demonstration may be on any facet of pork, including food, nutrition, production practices, or by-products. Demonstration topics should be challenging and exhibit contestant's knowledge as well as presentation skills.

Age: Any age 4-H member (8-10, 11-13, 14 and older)

Length of time: 20 minutes, including preparation, demonstration and clean up.

Project enrollment: Members must be enrolled in Foods/Nutrition or Swine projects.

Sample required: A sample of the food and a copy of the recipe should be given to judges.

Team: Teams of two are allowed only in the 8-10 year division.

Other: Animals may not be used. First-place winners may not enter in the same age category two years in a row. Three places are awarded in each age category.

International Topic Demonstrations - Sponsor: Missouri 4-H Global Education Program - Saturday, August 15

Number of entries per county: Three (3) demonstrations, with one from ages 8-10 and one from ages 11-13 and one from ages 14 and over
Judging Criteria: The best demonstration will include a lot of information about the place where the item originates and the people who use the item.

Age: Any age 4-H member (see age brackets above)

Length of time: 7-10 minutes

Project enrollment: May be enrolled in any 4-H project.

Sample required: If the item made is a food item, a copy of the recipe, nutrition information and a sample of the food should be given to judges.

Team: Team demonstrations are allowed.

Other: Members must earn a blue ribbon at the county level on any demonstration that relates to an international topic. Demonstrations can be about an item that is made in another country, used in another country, or originates from another country. Winners from previous years may compete again.

Egg Contest - Sponsor: Missouri Egg Council - Sunday, August 16

Number of entries per county: Two (2) per county - 1 from ages 8-13 and 1 from age 14 and older

Judging Criteria: Each contestant prepares an egg dish and also presents information that reflects the contestant's knowledge about eggs, including: nutritional value, preparation, storage, function, grading-sizing, versatility and economics of cooking with eggs.

Age: 8-13; 14 and older

Length of time: No more than 12 minutes

Project enrollment: May be enrolled in any 4-H project.

Sample required: Present a finished product for judges' sampling and a recipe handout for the judges.

Team demonstrations: Not applicable.

Other: 1. Recipe must contain 1 whole egg per serving if a salad or main dish, ½ egg per serving if an appetizer, snack, dessert or beverage.

2. The event is held in the Electric Theatre in the State Fair 4-H Building.
3. National contest opportunity: The winner in the 14 or older division may represent Missouri at the national contest in Louisville; travel and lodging will be available. Specific rules apply. Learn more by contacting Dr. Jesse Lyons, UMC Animal Science Extension, S-133 Animal Science Center, UMC, Columbia, Missouri 65211, lyonsj@missouri.edu, 573-474-8257 or Jo Manhart, Missouri Egg Council, 1000 West Nifong, Building 1, Columbia, Missouri 65203, jmanhart@4jumbo.com, 573-874-3138. They will provide critique and encouragement for the Missouri winner to help perfect a winning demonstration for the national level. Additional recipes, criteria and score sheets available at <http://www2.ca.uky.edu/national4hpoultry/>

Chicken Bar-B-Q Contest - Sponsor: Missouri 4-H - Monday, August 17 - cooking area assignment and set-up 8:30-9:30 a.m., East side of the 4-H Building, Jesse Lyons and Dorris Lyons - Co-Chairs - 573-474-8257 lyonsj@missouri.edu
 Number of entries per county: Four (4)
 Judging Criteria: Contestant's barbecue skills as demonstrated while preparing/cooking the chicken, and by judges' sensory evaluation of the finished product.

Age: Age 14-18 as of January 1st of current program year.
 Length of time: 2 1/2 hours time limit. Cooked product must be turned in by 12 Noon.

Project enrollment: May be enrolled in any 4-H project.
 Sample required: Three (3) barbecued chicken thighs should be presented to the judges on provided plates or containers without garnishes.

Other:

1. Pre-registration and barbeque grill request, if desired, due to Jesse Lyons 8209 E Dusty Rhodes Ln, Columbia, MO 65202 no later than August 1.
2. Contestants may have one adult (leader or parent) as a coach supervising and assisting during set-up, although cooking and product handling is restricted to the contestant. Electricity or portable generators may not be used or provided.
3. Date of event information:
 - a. Monitors provide participants with charcoal and lighter fluid, if desired.
 - b. Contestants may bring their own lighter fluid and non-self-starting charcoal.
 - c. Contestants must furnish all other equipment and supplies, including sauce (commercial or private recipe). A small work table may also be useful.
 - d. Monitors will provide each participant with six (6) broiler or roaster chicken thighs for cooking and a plate or container at turn-in
 - e. Contestants may use their own grills if it does not exceed 350-400 square inches. Baskets may not be used for turning. Small containers may be used on the grill only for heating sauces although foil may be used to wrap or shield the thighs while cooling.
 - f. Thighs may be prepared boneless or bone-in.
 - g. The contestant may not puncture the thighs to inject fluid or sauce into the meat.
 - h. Three of the six provided thighs must be turned in for sensory evaluation.
 - i. Contestants use charcoal barbecue grilling techniques and present three (3) barbecued chicken thighs on plat or container, without garnishes, at or before the end of the 2.5 hour period. In addition, the youth should give the judges a standard recipe card with information about sauce (brand or major ingredients) and key cooking instructions
4. Ribbons will be awarded. Winning contestant who is 14-18 years old as of January 1 of the current year will qualify for the National 4-H Chicken Barbecue Demonstration Contest in Louisville, Kentucky in November. Website for the national contest is <https://national4hpoultry.ca.uky.edu>. An additional contestant may qualify to cook turkey in the Turkey BBQ Contest at the national meeting. Assistance with expenses for attending national competition will be provided (amount may vary based on funding) to the national contest representatives.

Cooking with Honey Contest - Sponsor: Missouri State Beekeepers Association - Date: August 21, 2020

number entries per county: 3 per county (1 from each age division; 8-10, 11-13 and 14 and older)

Judging criteria: The demonstrator must use honey grown or made by a Missouri honey producer or company; provide the honey producer or company's name; give nutrition information; the health benefits of honey and the benefits of pollinators. The demonstrator must present a finished product for judges' sampling and a recipe handout for the judges.

Age: Any age 4-H member (8-10, 11-13, 14 and older)

Length of time: 20 minutes, including prep, demo and clean up

Project enrollment: Any project

Sample required: A sample of the food and a copy of the recipe should be given to judges

Other: 1st-3rd place will receive Missouri State Bee Keepers products. Awards will be presented in the Electric Theater 30 minutes after the last demonstration. The Missouri Beekeeper's web site <http://mostatebeekeepers.org> includes a list of regional beekeeper associations.

Missouri Grown Foods Contest - Sponsor: Missouri Department of Agriculture - Saturday, August 22

Number of entries per county: Three (3), one from age group 8-10, one from age group 11-13 & one from age group 14 & up.

Judging Criteria: The demonstrator must use a food product grown or made by a Missouri producer or company; provide background information on the producer or company, nutrition and preparation information, and the economics of the food product and the final dish. The demonstrator must present a finished product for judges' sampling and a recipe handout for the judges.

Age: Any age 4-H member (8-10, 11-13, 14 and older)

Length of time: 7-10 minutes

Project enrollment: May be enrolled in any 4-H project.

Sample required: A copy of the recipe and sample of the food should be given to judges.

Team: No team demonstrations allowed

Other: The top 3 places in each age range will receive Missouri Grown Products. Awards will be presented in the Electric Theater 30 minutes after the last demonstration. A list of Missouri grown and/or made food products is available at www.MissouriGrownUSA.com. For more information, call 1-573-522-6715.

OTHER SPECIAL EVENTS

August 13-16, 20, and 22, 2020
Show-Me 4-H Wares

Saturday, August 15, 2020
International Day

Monday, August 17, 2020
State 4-H/FFA Dog Show

Saturday, August 22, 2020
Clover Kid Day

For **MISSOURI STATE FAIR SCHOLARSHIP** information, please refer to the Sale of Champions section of this catalog.

