Cass County 4-H
County Fair Exhibit Ideas
Exhibiting is a fun way for you to showcase your project work. The following list of exhibit ideas is suggestions only. You may use these ideas or use them as starting points for your own exhibit ideas. Be creative and learn about those topics that interest you. Make something you will use.

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Division 1 - Cloverbud
Exhibit Ideas
- Seed Collection
- Needlepoint on Plastic Canvas
- Leaf Printing
- Vegetable Printing
- Setting a Table Display
- Bike Rules Poster
- Safety at Home Poster
- Bird Feeder
- Experiments with Chemistry
- Any other projects you made throughout the year

Division 10 – Animal Science
Exhibit Ideas – Veterinary Science
Level 1: From Airedales to Zebras
- Breeds, characteristics of an animal species
- Pet housing
- Livestock housing
- Roles of a single animal
- Life stages of your favorite animal
- Roles of animal body systems
- Animal behaviors
- Comparing pet food ingredients, prices
- Keeping indoor pets safe
- Booster shot calendar
- Storing animal medication safely
- Animal medication dose table
- Job shadowing a veterinarian
- Jobs dealing with animals
- Veterinarian tools

Level 2: All Systems Go
- Animal health record
- Animal systems
- Animal stresses
- Importance of colostrum
- Parasite life cycle
- Medication label
- Animal diseases

Level 3: The Cutting Edge
- Human/animal relationships
- Animal reproduction
- Importance of genetics on breeding
- Cell structure, function
- Identifying diseased animals
- Diseases that can spread to humans
- Preventing pet overpopulation
- Roles of veterinarians, vet techs
- Training animal actors for the movies

Exhibit Ideas – Apiary Science
Judges will evaluate honey for its color, body, flavor, and aroma, uniformity of appearance, clarity, and freedom from contamination, and neatness of the container.
The displays that you could design are numerous and varied. Display ideas could include:
- Bee anatomy
- Life of the honey bee
- Bee equipment
- Plants, nectar & pollen
- Preparing a hive for winter
- Bee diseases
- A queen production method
- Different methods of hiving swarms

Exhibit Ideas - Beef
Level 1: Bite into Beef
- Beef breeds
- Beef body parts
- Acceptable safety and ethical practices
- Daily animal care schedule
- Traits of a normal beef calf
- Feed ingredients
- Nose print of a beef calf
- Comparison of two different beef animals
- Beef meat cuts
- Beef by-products
- How to fit a steer for show
- Beef showmanship techniques

Level 2: Here’s the Beef
- Proper injection techniques
- Feed ingredients and nutrient content
- Parts of a ruminant’s digestive tract
- Controls of common external pests
- Livestock safety hazards
- Ethical decision making
- How to interpret animal behavior
- Beef leg structures
- How to place a class of animals
- Oral reasons on a heifer class
- How to determine frame score of a calf
- Meat cuts on a beef carcass
- How to judge retail beef cuts

Level 3: Leading the Charge
- Beef information on the Internet
- Ration for a beef animal
- How to judge hay quality
- Feed tags
- Common beef diseases
- Beef fitting demonstration
- How to evaluate beef carcasses
- How to calculate yield grades
- How to select a sire
- Beef reproductive system parts
- Estrous cycle
- How to detect pregnancy in cattle
- Demonstration on how to assist a cow giving birth
- Beef industry careers

Exhibit Ideas - Dairy
Level 1: Cowabunga
- Dairy breeds
- How to select a dairy project animal
- Parts of a dairy cow
- Desirable and undesirable traits of dairy cattle
- Dairy cattle feed intake
- Milk production and distribution system
- Equipment and supplies to show dairy cattle
- Dairy grooming techniques
- Dairy showmanship techniques
- Dairy heifer budget
- Basic needs of cattle throughout life cycle
- Comparison of calf and cow digestive tracts
- Dairy calf record
- Analysis of dairy information from the Internet
Level 2: Mooving Ahead
- How to judge a class of cows
- Calf identification methods
- Ethical decisions
- Signs of health and sickness
- Dairy cattle parasite controls
- Drug labels
- Dairy cattle behavior
- Dairy housing blueprint
- How to judge hay quality
- Diary cow digestive system
- Proper milking procedures
- Food safety and milk quality
- Dairy products in a healthy diet
- Dairy-related careers

Level 3: Rising to the Top
- How to score a cow’s body condition
- Parts of DHIA Herd Summary Sheet
- Animal welfare issues
- Milk quality indicators
- Dairy animal rations
- Estrous cycle of cattle
- Demonstration on embryo transfer
- Report on how to detect pregnancy in a cow
- Demonstration on how to assist a cow giving birth
- Dairy promotion
- Common dairy products
- Dairy-related careers
- My personal résumé for a dairy-related career

Exhibit Ideas - Goats

Level 1: Just Browsing
- Poster showing parts of a meat goat
- Display showing breeds of meat goats
- Paper or wooden jigsaw puzzle of quality market goat
- Display contrasting meat goats with good, bad conformation
- Display contrasting meat and dairy goats
- Educational display on meat goat feeds and nutrition
- Tack box for fitting a goat for show
- Display of good and bad sportsmanship in the show ring
- Scale model goat pen
- Photo journal of various goat facilities
- Journal of meat goat project activities

Level 2: Growing with Meat Goats
- Set of flashcards showing market kid diseases
- Educational poster on a market goat disease
- Photo display on three quality does for breeding stock
- Display of plants poisonous to meat goats
- Photo display comparing body condition score for three goats
- Meat goat weight tape
- Soil profile
- Display on meat goat predators
- Educational report on kidding
- Poster on reproduction in meat goats
- Completed record sheets on meat goats
- Computer program for keeping meat goat records
- Display on how to show a goat in the ring
- Consumer marketing survey on meat goats
- Journal of meat goat project activities

Level 3: Meating the Future
- Animal health record
- Educational poster on the life cycle of common meat goat parasites
- Scrapbook on current biosecurity or animal welfare issues
- Display on judging meat goats
- Educational display on selecting quality bucks for breeding stock
- Display comparing ingredients and costs on feed tags
- Forage analysis on hay or pasture
- Display on livestock show ethics
- Photo scrapbook of Farm Activity Day
- Children’s book on My Visit to a Goat Farm
- Educational poster on pregnancy ketosis or other reproduction disease
- Business card or marketing brochure on a goat farm
- Marketing research report on different goat products
- Herd management calendar
- Notebook or web page about goat-related careers
- Journal of meat goat project activities

Exhibit Ideas - Horse

Level 1: Giddy Up & Go
- Common horse coloring/markings patterns
- Common horse breeds
- Horse body parts
- Safety around horses
- Horse health chart
- History of horses
- Horse body language
- Parts-of-a-horse matching game
- Horse-breed comparison chart
- "Horsing Around" comic book
- Horse-stable design
- Horses and their temperaments
- Knots used with horses

Level 2: Head, Heart & Hooves
- Grooming a horse
- Supplies price chart
- Horse budget
- Value of pre-purchasing exams
- Horse skeleton
- Horse diseases
- Growth chart on your horse
- Horse nutrients
- Hay quality
- Dental problems of horses
- Shoing a horse
- Horse grooming tools
- Completed member guide

Level 3: Stable Relationships
- Horse reproductive system
- Preventing colic
- Treatment of 10 horse diseases
- Model horse barn
- Budget for horse expenses
- Pasture management practices
- Breeding horses
- Birth of a foal

Level 4: Riding the Range
- Identifying saddle, bridle and tack
- English and Western bridles
- Basic riding skills
- Trail course maneuvers
- Horsemanship skills/steps
- Events of a horse show
- Horse first aid kit
- Professional horse trainer interview
- Rule book for training horses
- Your own equitation pattern
Level 5: Jumping to New Heights
- Pre-show fitting techniques
- Judging horse showmanship
- Presenting a horse using “Quarter System”
- Basic horsemanship skills
- Evaluating ethics in competitive situations
- Teaching a young member to ride
- Teaching the basic seat and three gaits
- Developing a charity horse show
- Braiding techniques
- Your own showmanship pattern
- Horse project memories

Exhibit Ideas - Pets
Level 1: Pet Pals
- Exploring your favorite pet
- Identifying pet body parts
- Selecting a pet
- Handling your pet
- Providing a safe environment for your pet
- Designing your pet’s space
- Observing your pet’s behavior
- Exploring the costs of pet ownership

Level 2: Scurrying Ahead
- Explore digestion
- Pet population issue
- Feeding pets
- Pet supplies
- Determining a pet’s sex
- Study pet behavior
- Explore pet communication
- Photograph pets
- Taking care of newborn animals
- Identify animal bones

Level 3: Scaling the Heights
- Explore pet products
- Classify animals
- Understand how genetics works
- Keep a pet healthy
- Explore animal welfare issues
- Explore pet-related careers

Exhibit Ideas – Cats
Level 1: Purr-fect Pals
- Cat characteristics
- Cat breeds
- Parts of a cat
- Demonstration on how to handle a cat
- Cat grooming techniques
- Demonstration on how to show a cat
- Responsible cat ownership
- Cat hazards home survey
- Cat litter
- Budget for keeping a cat
- Signs of health and sickness
- Common cat parasites
- Cat vaccination history
- Procedures and benefits of spaying or neutering

Level 2: Climbing Up
- Characteristics of cat breeds
- Cat senses
- Cat family
- Cat shows and procedures
- Demonstration on how to exercise a cat
- Famous cats
- Cat behavior and communications
- De-clawing process and issues
- Emergency situations and first aid
- Cat food labels
- Special cat diets
- How to assess a cat’s temperament for animal-assisted visiting
- Traveling cat tips
- Dangers of having an outside cat

Level 3: Leaping Forward
- Cat body systems and their functions
- Cat-to-people diseases
- Cat reproduction and breeding management
- Care of older cats
- Cat genetic characteristics
- Fear and stress behaviors in cats
- Showmanship judging tips
- Community cat laws
- Feral cats
- Animal welfare and animal rights issues
- Cat-related business plan

Exhibit Ideas - Dogs
Level 1: Wiggles and Wags
- Famous dogs
- Dog care schedule
- Traits of a good dog for my family
- Dog breeds
- Mixed breed dogs
- Plan to prevent a lost dog
- Dog body parts
- Dog food nutrients
- Dog vaccinations and parasite control
- Demonstration on how to housetrain a dog
- Dog body language and behavior
- Emotional aspects of losing a dog
- Basic dog obedience commands
- Demonstration on how to groom a dog

Level 2: Canine Connection
- Dog breed origins
- Dog boarding issues
- Dog care budget
- Inherited problems of specific dog breeds
- Dog hazards home survey
- Comparison of commercial dog foods
- Report on visit to veterinary clinic
- Dog parasites
- Benefits of spaying or neutering
- Training methods to correct problem behaviors
- Demonstration on how to train a dog to do a trick
- Dog performance events
- Dog showmanship equipment and skills
- Dog ownership laws
- Dog-to-people diseases
- “Canine Good Citizen” training program
- Dogs as service animals
- Dog-related careers
- Dog showmanship clinic plan
- Dog fun day plan
Exhibit Ideas - Poultry

Level 1: Scratching the Surface
- Identifying body parts of a bird
- Identifying poultry breeds
- Identifying parts and functions of eggs
- Designing a brooding arrangement for chicks
- Handling poultry
- Selecting pullets
- Fitting and showing poultry

Level 2: Testing Your Wings
- Identify parts and functions of a bird’s skeleton
- How an egg is formed
- Selecting broilers
- Determine peck order
- Selecting hens for egg production
- Imprint with chicks
- Prevent poultry diseases

Level 3: Flocking Together
- Manage a laying flock
- Mount a chicken skeleton
- Discover qualities of eggs
- Handling poultry products safely
- Process a chicken
- Explore poultry-related careers

Exhibit Ideas - Sheep

Level 1: Rams, Lambs & You
- Breeds of Sheep
- Specific breed of sheep
- Identifying body parts of sheep
- Age Identification
- Selecting a lamb
- Feed a lamb
- Lamb diseases
- Lambing time
- Characteristics of wool and uses
- Sheep by-products
- Identifying lamb cuts
- Sheep fitting hints
- Sheep showmanship

Level 2: Shear Delight
- Lamb yield grades
- Digestive system
- Sheep feed requirements
- Understanding a feed tag
- Lambing life saving measures
- Lambing
- Sheep management practices
- Sheep diseases

Level 3: Leading the Flock
- Breeding time
- Heritability – traits make a difference
- Hay quality
- Sheep-related careers
- Sheep issues

Exhibit Ideas - Rabbits

Level 1: What’s Hoppening?
- Different rabbit breeds
- Uses of rabbits specific to breed
- Rabbit handling during showmanship
- Different rabbit parts
- Rabbit management plans
- Costs of owning a rabbit
- Rabbit hutch
- Registering a rabbit
- Comparing feed costs
- Rabbit nesting box

Level 2: Making Tracks
- Rabbit grooming techniques
- Rabbit judging skills
- Rabbit types
- Rabbit showbox
- Tattooing a rabbit’s ear
- Environmental needs for a rabbit
- Disease prevention
- Rabbit processing techniques
- Meal using rabbit meat
- Rabbit markets for fur, meat, reproduction

Level 3: All Ears!
- Rabbit breeding chart
- Pregnancy checks on female rabbits
- Creating a rabitry
- Parts/functions of rabbit digestive system
- Performing a rabbit check up
- 7-level hierarchy of the domestic rabbit
- Teaching showroom etiquette
- Local laws pertaining to rabbits
- Pelting a rabbit

Exhibit Ideas - Swine

Level 1: The Incredible Pig
- Pig breeds
- Cassing market hogs
- Hog facility design
- Swine digestive system
- Swine bone structure
- Swine grooming
- Pork cuts
- Swine feeding schedule
- Swine breed matching game
- Feed and water consumption
- Swine diseases
- Products with swine by-products

Level 2: Putting the Oink in Pig
- Swine health care plan
- Swine show box
- Pork tasting event and results
- Careers in the pork industry
- Swine judging techniques and reasons
- Farrow health records system
- Swine waste management plan
- Feed ingredients
- Back fat testing
- Swine breed origins

Level 3: Going Whole Hog
- Swine breeding system
- Preventative swine herd health program
- Hog nutrition requirements
- Coaching a livestock quiz bowl team
- Organizing a swine showmanship class
- Baby pig management
- Applying for an internship in the pork industry

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Division 25 – Horticulture
Exhibit Ideas – Gardening (Educational)
Educational Exhibit Ideas
- Identifying plant parts
- Gardening equipment
- Harvesting techniques
- Making “collars” around seedlings
- Identifying and applying mulches
- Applying fertilizer
- Identifying seedlings from weeds
- Building a cold frame
- Identifying plant diseases and treating
- Identifying insect pests
- Seed germination
- Recognizing ripeness and faults
- Pollination

Exhibit Ideas – Flower Garden Fun
- Educational poster of flowers that bees are attracted to.
- Educational poster on Pollination of flowers.
- Educational poster or display on the germination process of seeds.

Division 27 – Entomology
Exhibit Ideas – Teaming with Insects
- Take a look at "Making an Entomology Exhibit" to get some great ideas on where to start with your project!
- Create a poster showing different crop pests and their natural predators.
- Make an insect display with scientific and common names.
- Create a butterfly garden in your backyard and record the species that visit it. These websites will help you get started! University of Kentucky, University of Minnesota
- Interview a bee producer and learn why bees are important to plants and the environment.
- Start an insect collection.
- Make a poster showing the different invasive species in your area, how they affect the ecosystem, and how they are spread.
- Create a list of beneficial insects and find out what makes them beneficial
- Some butterflies and insects migrate. Find out which ones do and where they go for the winter.

Division 28 – Outdoor Skills
Exhibit Ideas – Environment
- Choose one living thing in the forest, field or stream. Develop display to describe an ecosystem.
- Display on environmental pollution—describe the pollution, causes, effects on people and other living things, methods to correct the situation
- Display showing safety practices and/or study equipment to use when taking a hike in the forest, through field or stream.
- Identify, mount and label a plant book of 10 different Minnesota plants. Select a theme such as trees, shrubs, weeds, wildlife food or shelter, human food, survival food for humans, poisonous plants, wild flowers, aquatic plants, plants for beauty, food, medicine and/or flavorings, etc.
- Bird book of 10 North Dakota birds including pictures/drawings of birds and information on habit, food, nesting, coloration,
- differences in species between forest, and field.
- Display showing erosion control practices like minimum tillage, terraces, contour strips, grassed waterways, field windbreaks, water control structures, etc.
- Display on career themes such as forestry, entomology, agriculture, wildlife.
- Trees and shrubs—a tree book of leaves and twigs from 10 different trees and shrubs. Identify each one.
- Trees and shrubs—identify and mount 10 cross section cuttings of wood. List present day uses of each wood.
- Diary of a favorite tree, shrubs, plants, park or natural place.
- Display showing how plants grow including effect of soil, water, air and sun on growth.
- A display describing the ecology (food pyramid) of a farm pond.
- Report or display on an animal’s tracks, home habits and foods.
- Display or inventory of plants, animals, birds, insects or other living things in your backyard or defined natural community.
- Display or report on soil, showing features of soils such as color, structure, texture, differences in forest and field soils.
- Identify, mount, and label 10 insects of Minnesota. Use a theme like: insects of the forest, insects of the field, aquatic insects, insects beneficial to people; insects harmful to people.
- An animal book of 10 wild or aquatic animals of North Dakota include pictures/drawings and information on habits, foods, shelter needs.

All exhibits should be original designs made with everyday objects and materials. Exhibits with purchased kits will not be accepted.

Exhibit Ideas – Sportfishing
Level 1: Take the Bait
- Parts of a fish
- Types of fish in your area
- Fish print
- Types of bait
- How to tie a fishing knot
- Types of fishing knots
- Types of fishing tackle
- Tackle box inventory check list
- Proper tackle maintenance
- How to cast accurately
- Differences between bobber and bottom fishing
- Map of favorite fishing spot
- Caring for your catch
- Water cycle

Level 2: Reel in the Fun
- Selecting the right fishing knot
- How to use a spinning rod and reel
- How to cast a bait
- How to cast a fly
- Decorated lure or jig
Level 3: Cast into the Future
- Parts of a fishing reel
- Fishing reel maintenance
- How to make artificial lures and flies
- How to debarb and sharpen hooks
- Lure design plan
- Cedar wood lure
- Refurbished rod and reel
- Customized tackle
- Types of insects that fish like
- Aquatic insect kick net
- Fishing-related game
- Sportfishing skillathon
- Fishing trip plans or report
- Fishing field journal
- Water inversion experiment
- Boat safety checklist
- Angling ethics
- Sportfishing-related careers

Exhibit Ideas – Nature Trails
Nature Trails 1
- Eight photos of different tree species with fall foliage, mount and identify.
- Eight leaves of different tree species with summer or fall foliage.
- Bird feeder, any pattern, include information describing the species to be fed and the feed to be used. No purchased ones.
- Bird house, any pattern, include information on the species to be housed and why this house should be used. No purchased ones.
- Observation study record of one of the following: waterfowl, winter birds, bird feeder use, wildlife observations, bud study sketches, flower study, bird nesting, fish scales, amphibians, rainfall (at least one month), water use, geological formations. Include a minimum of six observations. See project book for information required.

Nature Trails 2
- Leaf Collection consisting of 10 or more leaf mounts, rubbings, tracings, or prints.
- Tree seed collection consisting of 12 or more different seeds.
- Bark, flower, bud or wood collection consisting of 10 or more specimens.
- Tree seedlings started from seed. Label and display in pots.
- Natural resources careers display.
- Recycling display.
- Upland game bird food collection of different foods needed by three or more different species. Label each food.
- Plaster casts of four or more different animal or bird tracks. Label each with name of animal.

Collection of 12 or more species of wildflowers. List flower name and where collected. Collection cannot include rare or protected plants.

Collection of 10 or more native grass species. Label with identity, date collected and where collected.

Exhibit Ideas – Bird Watching in ND
- Display of at least 10 species of birds pictures, either drawings or cut-outs of birds seen and identified by the member.
- Compare and contrast 5 species of birds of the field with 5 species of birds of the forest or marsh.
- Display of pictures or drawings and explanation of the different kinds of one of the following bird parts: beak, feet, feathers, or other bird parts.
- Written journal of bird watching activities covering at least 3 expeditions.
- Photo display of birds sighted by member at feeder, nest or bird house, tree, etc.
- Display and report your observances of body parts of a bird and their functions.
- One bird house of your own construction with description of intended use and bird it was built for.
- One bird feeder of your own construction.
- Display or poster illustrating ways member became more aware of the environment as a result of the project.

Exhibit Ideas – Forestry
Level 1: Follow the Path
- Different types of leaves
- Different types of trees
- Different types of roots
- Cross section of a tree
- Types of tree communities
- Model of an effective ecosystem
- Examples of good/bad soil
- Process of photosynthesis
- Topographic map of your county
- Jobs that require knowledge of trees, forests

Level 2: Reach for the Canopy
- How water moves from roots to canopy
- Life cycles of a tree
- U.S. map showing forests in each state
- Plants that coexist in a forest
- Impacts of invasive species on forest
- Different tree diseases
- Risks of forest fires
Level 3: Backpacking Expeditions
- Identifying trees using dichotomous tree key
- Identifying trees by rubbing the bark
- Identifying types of tree fruits
- Map of forests in your county
- Forest biomes
- Goods, services provided by forests
- Comparing renewable, nonrenewable resources
- Pruning a tree branch
- Forestry careers
- Improving trees genetically

Exhibit Ideas – Outdoor Adventures

Level 1: Hiking Trails
- Hiking Essentials
- Selecting a backpack
- Packing a backpack
- Body heat science
- The layering principle
- Hiking boots/shoes and socks
- First aid kits and tips
- Hot spots and blister care
- Leave no trace principles, using a compass
- Protecting yourself from lightning
- Whose footprints

Level 2: Camping Adventures
- Planning an overnight camping trip
- Using basic camping tools
- Tying knots
- Camp site selection
- Selecting and lighting a camping stove
- Purifying water
- Washing dishes

Level 3: Backpacking Expeditions
- Select and use a backpacking tent
- Using a map and compass
- Training for a backpacking trip
- Environments and backpacking
- Backpacking food item requirements
- Types of shelter
- Create a poster or checklist of tent directions for pitching, striking and caring for tents
- Create a tent selection guide for others
- Research what you can/cannot do in the various hiking areas

Exhibit Ideas – Shooting Sports

Poster, scrapbook, or essay illustrating the preparation required for a “successful” hunt.
- Scrapbook that illustrates your hunting experiences.
- Poster or display which illustrates safety considerations when selecting and/or using a tree stand.
- Display of antler mount completed by the member.
- Poster which illustrates ground to air rescue signals.
- Poster illustrating how to correctly handle firearms while hunting in a group — limit to two situation topics.
- Any type of display illustrating hunter ethics.
- Poster illustrating and briefly explaining shooting range safety for (select one): archery, air rifle, air pistol, .22 cal. Rifle, or shotgun trap.
- Poster illustrating and briefly explaining proper sight alignment for (select one): archery, air rifle, air pistol, .22 cal. Rifle, or shotgun trap.
- Poster illustrating the safe and legal transportation of (select one) archer bows or firearms.
- Poster illustrating the items which should be in a survival kit with a brief explanation of each items potential use.
- Display of the contents of a survival kit with a brief explanation of each items potential use. Display within a lockable case with a plexiglass-type viewing cover.
- Poster which illustrates and briefly explains how to construct an item of survival such as a solar water still, shelter or any other survival enhancer.
- Exhibit of a model of a survival enhancer, constructed by the member, with a brief explanation of its construction and how it is to function.
- Exhibit of a detailed accounting of your participation and progress in your shooting sports project. May include logs, diary, photographs, documented targets, graphical presentation of shooting scores or other.
- Poster illustrating different types of firearm actions with parts properly labeled.
- Display model, constructed by the member, which display and the basic parts of a firearm (selects): rifle, shotgun, or pistol. Identify the basic parts.
- Poster illustrating and identifying the parts of a specific firearm (select one): air rifle, air pistol, .22 cal. Rifle or shotgun. The name, model and type of the firearm illustrated must be stated.
- Poster illustrating the different types of rifle sights with a brief explanation of each.
- Poster or display model, constructed by the member, which illustrates ammunition parts (select one): rifle cartridge or shotgun shell. Identify and explain the function of each part.
- Poster illustrating the procedure of hand-loading (select one): Shotgun shells or rifle cartridges. Include a brief explanation of the steps involved.
- Display of hand-loaded shotgun shells (loaded by the member) with a description of the procedures used. Display within a lockable case with a plexiglass-type viewing cover.
- Display of a collection of various types of ammunition. Identify and indicate the particular items intended or function use. Display within a lockable case with a plexiglass-type viewing cover.
- Poster illustrating with drawings or pictures (select one): trap shooting techniques, all four firing positions used with the air rifle or the .22 cal. Rifle, or positions and techniques of air pistol shooting.
- Poster illustrating the common carrying positions for a rifle or shotgun with a brief explanation as to when each carrying position would be appropriate.
- Poster illustrating how to clean and care for your firearm (select one): your rifle, shotgun, or pistol.
- Exhibit of firearm shooter’s accessory item made by the member: shell pouch, rifle sling, shooting bench, pellet trap, elevated pettel trap, or other.
- Poster illustrating, and briefly explaining proper bow shooting techniques.
- Poster illustrating different types of archery bows with a brief explanation and/or history of each.
Poster illustrating different arrow point types with a brief explanation relating design to function.

Display of arrow point types with a brief explanation relating design to function (display within a lockable case if hunting broadheads are displayed).

Display of various types of arrow shafts and/or arrow fletching. (Arrow points removed.) With a brief explanation relating design to function. (If displayed as a poster, poster may be 24” x 35”).

Exhibit of archers accessory item made by the member: finger tab, shooting glove, arm guard, quiver, shooting sights, or other ....

Any other exhibit, display or illustration.

Exhibit Ideas – Wildlife

Wildlife - Level A
- Venn diagram of wildlife and habitat
- Herbivores, Omnivores, Carnivores
- Display on a specific wildlife animal
- Food Chain
- Make a Bird Feeder and include observations
- Make a Birdbath and include a record of what kind of birds visit it
- Hummingbirds

Wildlife – Level B
- Ecosystem and Food Web
- Aquatic Food Web
- Birds & Bills
- Birds legs and feet
- Animal legs and feet
- Animal ears, eyes and teeth
- Migrating birds
- Habitats

Wildlife – Level C
- Signs of wildlife activity
- Life stages and reproduction
- Habitat mapping
- Wildlife and the forests
- Wildlife conservation
- Careers

Wildlife – Level D
- Wildlife management plan
- Wildlife management practices
- Wildlife career
- Current wildlife topics (see page 10 for ideas)
- North Dakota Game & Fish wildlife areas

Stage 3: Reaching New Heights
- Drinking straw and balloon rocket
- Paper flight simulator
- Feather wing glider
- Controllable glider
- Shuttle on a string demonstrator
- Balloon shuttle
- Nagasaki Hata fighter kite
- Remote control parts and their functions
- Helicopter parts and their functions
- Paper hang glider

Stage 4: Pilot in Command
- Model rocket
- Altitude tracker
- How to earn a pilot’s certificate
- Navigation system
- Flat-style box kite
- Personal career profile

Division 32 – Bicycle

Exhibit Ideas - Bicycling

Level 1: Bicycling for Fun
- Poster: proper way to wear a helmet
- Display: helmet types
- Poster: bike safety check
- Exhibit: highway signs
- Poster: how to make safe turns
- Poster: crossing intersections safely
- Poster: how to make safe stops
- Display: riding a bike in traffic
- Display: locating bike hazards
- Display: choosing safe places to ride
- Bike scrapbook

Level 2: Wheels in Motion
- Poster: purchase information on bikes
- Display: bike parts
- Poster: tire inflation
- Display: bike adjustments
- Display: chain maintenance
- Poster: safe scanning
- Poster: how to make safe turns
- Poster: using gears efficiently
- Poster: quick stopping
- Display: dodging obstacles
- Display: planning a bike trip
- Exhibit: how to be a safe, courteous cyclist
- Bike adventure journal
- Price comparison of bikes to buy
- Display: how to fix a flat tire
- Display: chain maintenance
- Display: how to replace brake cables
- Poster: making emergency turns
- Poster: using gears efficiently
- Display: riding safely at night, in bad weather

Division 31 – Aerospace

Exhibit Ideas

Stage 1: Pre-Flight
- Edible rocket
- Comparing birds to airplanes
- Aerospace careers
- Homemade space helmet

Stage 2: Lift-Off
- Drinking straw rocket
- Gnome rocket
- Paper airplane
- Homemade map
- Types of aircraft
- How weather affects flying
- Diamond kite
- Hot-air balloon model
- Paper helicopter
- Airplane parts and their functions

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Division 33 - Electricity
Exhibit Ideas
Unit 1: Magic of Electricity
- Homemade flashlight
- Simple switch
- Circuit with two batteries and one light bulb
- Compass
- Electromagnet
- Galvanometer
- Electric motor
Unit 2: Investigating Electricity
- Circuit diagrams with explanation
- Series circuit
- Parallel circuit
- Momentary switch
- Three-way switch
- Soldered connection
- Rocket launcher
- Burglar alarm
Unit 3: Wired for Power
- Electrical tool and supply kit
- Display of symbols on wires and cables and their meanings
- Display of light bulbs and the jobs they do best
- Poster on how to read an appliance nametag
- Chart showing the electrical usage of appliances
- Poster on how to replace a switch
Unit 4: Entering Electronics
- Display of electronic parts
- Diode
- Transistor
- Light emitting diode (LED)
- LED flasher
- Photocell alarm
- Light meter
- Silicon controlled rectifier (SCR) intruder alarm
- 6-8 watt amplifier with integrated circuit

Division 34 – Small Engines
Exhibit Ideas
Level 1: Crank It Up
- Parts of a small engine
- How to start a small engine
- Tools for working with small engines
- Engine oil grades
- Air filters or cleaners
- Cooling systems
- Spark plug maintenance
- Air cleaner maintenance
- Safety labels
- Safety rules when using small engines
- Small engine machines and tools
- Small engine-related careers
- Comparison of tool prices
Level 2: Warm It Up
- Small engine types
- Internal small engine parts
- Specialty tools for working with small engines
- How to determine engine size
- Engine compression
- Carburetor adjustments
- Steps in disassembling a small engine
- Steps in seasoning a small engine
- Transmission of power in a small engine
- Types of lawn mowers
- How to set lawn mower height
- Mowing safety rules
- Comparison of small engine machine part prices
- Small engine businesses
Level 3: Tune It Up
- Engine sounds
- Diagnostic tools
- How to disassemble and assemble an engine’s fuel and air system
- How to disassemble and assemble an engine’s electrical system
- How to disassemble and assemble an engine’s base
- Lawn mower maintenance
- Trends in the small engines industry
- Local small engine machine laws and regulations
- Engine replacement
- Comparison of small engine machine prices
- My small engine business plan

Division 35 – Welding
Exhibit Ideas
Welding
- Foot scraper
- Electrode holder
- Round metal drill jig
- Chipping hammer
- Post driver
- Christmas tree stand
- Angle iron sawhorse
- Adjustable work stand
- Positioning clamp
- Welding table
- Handcart
- Log splitter
- Grain auger dolly
- 3-point tractor hitch
- Any other item built in the project

Division 36 - Woodworking
Exhibit Ideas
Unit 1: Measuring Up
- Sandpaper block
- Poster of common woodworking tools
- Poster of important woodworking safety practices
- Display of different nails and screws
- Rabbit puzzle
- Airplane
- Wooden box
- Letter holder
- Picture frame
Unit 2: Making the Cut
- Display of different species of wood
- Plan for a wooden item drawn to scale
- Display of different finishes
- Whistle
- Sawhorse
- Birdhouse
- Tool box
- Foot stool
Unit 3: Nailing it Together
- Poster of woodworking careers
- Display of different wood fasteners
- Poster of different types of wood clamps
Unit 4: Finishing Up

Exhibit Ideas - Computer

- Display of different types of wood stains
- Boomerang
- Belt buckle
- Puzzle
- Bookshelf

Unit 4: Finishing Up

Exhibit Ideas - Computer

- Display of different types of wood stains
- Boomerang
- Belt buckle
- Puzzle
- Bookshelf

Division 37 – Technology

Exhibit Ideas - Computer

- Labeled chart, graph, poster, or 3D display showing the components of a computer and how they work.
- Display and/or written summary (1 to 3 pages) about consumer choices involved when buying a computer.
- Display and/or written summary (1 to 3 pages) about one of the following: history of computers, changes in society resulting from the invention of computers, the ethics (copyright laws, privacy) involved in using computers or another topic.
- A display and/or written summary or other type of presentation showing work done in the 4-H computer project.
- Display and/or written summary (1 to 3 pages) about computer technology.
- Display and/or written summary (1 to 3 pages) about computer languages.
- A short computer program written by the member—could include a statement of purpose, flow chart, listing of program and listing of a run of the program.
- Display and/or written summary (1 to 3 pages) about computer hardware other than monitors, keyboards or disk drives.
- Display and/or written summary (1 to 3 pages) showing how computer software can be put to use—include statement of purpose, written plan for use and examples of use.
- Other—may be a display and/or written summary or other type of presentation showing work done in the 4-H computer project.
- Software developed by the 4-H member—include statement of objectives, list, run, and discussion of program. Programs must be original, enhanced or adapted by the member from an existing program.
- A display showing how exhibitor has used a computer in an application related to 4-H. Include a statement of purpose and a written plan for use and example of use.
- A written report of a study on a computer science career—include positions available, skills needed, course work needed to obtain skills and programs offered at universities and other institutions which relate to the career. Could include a poster or three dimensional display summarizing study.
- Display and/or written summary (1 to 3 pages) about a computer language or languages other than BASIC.
- Display and/or written summary (1 to 3 pages) including an outline or lesson plan for teaching other members about computers or a plan to use the computer as a teaching tool for another 4-H project. Include statement of objectives and plan for teaching.
- Other—may be a display and/or written summary or other presentation showing work done in the 4-H computer project.
- Display and/or written summary (1-3 pages) about a computer operation besides programming.

Exhibit Ideas – Geospatial

Exploring Spaces, Going Places, Level 1

- Using the ‘Take Me on a Tour’ activity, create a display and map showing four to six tour sites, geo-tools used to create the map, positional data for the sites, and information about the selected sites.
- Using information from the “What Are Geographical Tools?” activity, prepare an exhibit showing and describing ten mapping tools. Explain how the mapping tools are used and why maps are important.

Exploring Spaces, Going Places, Level 2

- Using the table from the “Take Me on a Tour” activity, create a map showing recreational, historical or public service sites in your community.

Exploring Spaces, Going Places, Level 3

- Create a computer-generated map with layered data that provides information on a community need. Explain how the need was identified; how you gathered information; and your recommendations on how to solve the need. Use the template from “Take Me on a Tour” activity to gather data for the map.

Exhibit Ideas – Robotics

Robotics Platform

- Build robot to do a simple task.
- Robots are everywhere! Find examples and make a poster/display.
- Research what companies use robots and how.
- Use recycled materials to make a robot.

Junk Drawer Robotics I (Give Robots a Hand)

- A balance beam design you have created.
- A created design for a robot arm that has at least two of the three axes of movement.
- A created design for a gripper for your robot arm.

Junkdrawer Robotics II (Robots on the Move)

- A built can-can robot that will make drawings on paper.
- A built a rover (Es-Car-Go) with a gear train that is able to climb a ramp.
- A design for an underwater ROV that can be powered to go up and down in a tank of water.

Junkdrawer Robotics III (Mechatronics)

- A designed and built or modified machine that will travel forward and backward using electrical power.
- A designed mechanism that will sense a barrier (both front and back) and change motor or wheel direction.
- Build and compare at least two types of circuits.
- Design an original robot that can perform a specific task.

Exhibit Ideas – Power of the Wind

A 4-H member can create a poster, notebook or display of a Power of the Wind project. Some specific ideas are:

- Make a brochure of different careers that are required to build a wind farm. Include descriptions of careers, technologies they used, educational requirements and other interesting facts about careers.

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Display and/or written summary (1 to 3 pages) showing how exhibitor has used a computer in an application related to 4-H. Include a statement of purpose, flow chart, listing of program and listing of a run of the program.

Door knocker
Toy dog
Table-top hockey board
Toy car
Poster of important safety practices when working with chemicals
Display of different adhesives
Plans of current and ideal woodworking shop
Poster of advanced woodworking tools
Bookshelf
Puzzle
Belt buckle
Display of different types of wood stains
Display and/or written summary (1 to 3 pages) including an outline or lesson plan for teaching other members about computers or a plan to use the computer as a teaching tool for another 4-H project. Include statement of objectives and plan for teaching.

Exhibit Ideas – Geospatial

Exploring Spaces, Going Places, Level 1

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- Using information from the “What Are Geographical Tools?” activity, prepare an exhibit showing and describing ten mapping tools. Explain how the mapping tools are used and why maps are important.

Exploring Spaces, Going Places, Level 2

- Using the table from the “Take Me on a Tour” activity, create a map showing recreational, historical or public service sites in your community.

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- Create a computer-generated map with layered data that provides information on a community need. Explain how the need was identified; how you gathered information; and your recommendations on how to solve the need. Use the template from “Take Me on a Tour” activity to gather data for the map.

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Exhibit Ideas – Power of the Wind

A 4-H member can create a poster, notebook or display of a Power of the Wind project. Some specific ideas are:

- Make a brochure of different careers that are required to build a wind farm. Include descriptions of careers, technologies they used, educational requirements and other interesting facts about careers.
A wind powered vehicle, machine or sculpture or other that has been designed, built and tested by the 4-H member.

Create wind-powered piece of art work—something that might move or change in the breeze.

Create a scale model of a wind farm.

Wind Poster – Poster should exemplify one of the lessons learned in the Power of Wind Project.

Mini Turbine Blade Energy Display – Develop a pinwheel display that demonstrates the working power of wind. Follow guidelines on page 18 and 19 of the manual. Display should include a notebook description of the effectiveness of at least three different designs or materials with and without rotational symmetry.

Wind as Energy Display – Item should be the original design of the 4-Her. Include the item and a notebook of why the item was designed and how it harnesses the power of wind.

Create a photo journal of wind turbines and wind-related projects in your state and/or surrounding states.

### Division 42 - Careers

**Exhibit Ideas – Entrepreneurship**

- Advertisement designed by exhibitor to market a business, product or service
- Marketing plan for my business
- Picture story of my entrepreneurship project
- Prototype of my product
- My business plan

**Exhibit Ideas - Workforce Readiness**

- Report on importance of honesty in the workplace
- 3 job reference letters for my potential first job
- My personality type profile
- Story on the value of teamwork
- Review of teamwork in a local business
- A teamwork scenario
- Profile of my first potential job
- Report, artwork or collage on a chosen job
- Story or picture collage of “typical day at my job”
- Collection of 3-5 news articles exploring future career possibilities

### Division 43 - Citizenship

**Exhibit Ideas - Citizenship**

- Group ground rules
- Community map
- Magazine picture collage illustrating the group’s issue
- Mission statement
- Stakeholder map and chart
- Notes from key interviews
- Action plan
- Action-step evaluations
- Examples of media coverage
- Letters, fliers, posters, speeches, surveys, petitions or other examples of group’s work
- Group’s story of its citizenship project, with illustrations

**Exhibit Ideas - Service Learning**

- Poster, collage or model of problems or needs in my community
- Report on what makes a worthwhile service experience
- Display or poster on my service learning mission
- My service learning project plan
- My community need survey or opinion poll results
- Map of my community’s assets and needs
- Possible solutions to my community’s need
- Original poem reflecting on my service learning project
- Outline and artifacts of a presentation documenting my service learning project
- My service learning project journal, photo diary or scrapbook.

### Division 45 – Educational Exhibit

**Exhibit Ideas – Club Officer/Business Meeting**

- Members who are a current year club officer can develop an educational display related to their officer role. This could be in poster form, a tri-fold or two-fold display, notebook, etc.
- Members who are not in an officer role can prepare an exhibit related to some aspect of the 4-H business meeting.

### Division 46 - Leadership

**Exhibit Ideas**

**Level 1: My Leadership Workbook - Grades 3-5**

- Report on an interview of someone who you think is a good leader
- “Leader book” of different leaders in your community
- Notebook or scrapbook of completed leadership activities
- Display on leadership styles
- Photo story of a leadership experience
- Display of a community service-learning project you helped plan

**Level 2: My Leadership Journal - Grades 6-8**

- Educational poster on meeting ground rules
- Outline of a presentation on a community issue
- Notebook or scrapbook of completed leadership activities
- Display on leadership styles
- Photo story of a leadership experience
- Display of a community service-learning project you helped plan

**Level 3: My Leadership Portfolio - Grades 9-12**

- Treasure chest of your strengths and weaknesses
- Journal of your decision making strategies
- Display about the characteristics of good teamwork
- Strategic plan, including vision and mission statements
- Notebook or scrapbook of completed leadership activities
- Display on leadership styles
- Photo story of a leadership experience
- Display of a community service-learning project you helped plan
- Portfolio of your leadership experiences
Division 49 - Communications
Exhibit Ideas
Create Posters or Educational Displays Related to:
- Communication One on One
- Making a First Impression
- Working with Others
- Conflict Resolution
- Chairing a Meeting
- Listening to Understand
- Reading to Understand
- Writing with Meaning
- Making a Convincing Argument
- Getting a Job
- Promoting You and Your Business
- Dealing with Community Issues
- Communicating through Music
- Communicating through Art
- Exploring Careers in Communications

Division 62–Explore Treasures of 4-H
Exhibit Ideas
- Treasure box
- Treasure list
- Scrapbook of 4-H information
- Collage of 4-H projects of interest to me
- Completed household hazard list
- First aid kit
- Flag display
- Patchwork quilt
- Plants with plant growth record
- Terrarium
- Labeled leaf print
- Travel log

Division 51 – Creative Arts
Exhibit Ideas - Clowning
- A clowning prop the member has made. Include a written explanation of how it was made and how to use the prop in a folder.
- A picture essay of clowning. Include pictures, photos or drawings describing some aspect of clowning, such as history of clowning, kinds of clowns, make-up application, costumes, etc.
- A scrapbook of clowning experiences. The scrapbook must include a description of at least three clowning experiences. These descriptions should include both pictures and written explanations of the experiences. Examples of experiences may include such things as working in a mall, visiting a day care center, doing 4-H promotional work, etc.
- A scrapbook of leadership experiences in clowning. Indicate how the member has helped others through the clowning project. Examples may include planning and supervising a group of clowns, visiting a nursing home, helping a member make a clown costume, helping a member with a fair exhibit, etc.
- An item made that is useful to the member during clowning experiences.

Exhibit Ideas – Glue Solution
- Tree skirt
- Banner
- Flags or pendants
- Decorated t-shirt or sweatshirt
- Button picture frame
- Locker or closet organizer
- Clothing item
- Windsock
- Decorative desk pad

Exhibit Ideas – Leathercraft
- ID & picture case
- Billfold
- Checkbook cover
- Coin purse
- Eye glass case
- Belt buckle
- Key case
- Knife sheath or swivel knife sheath
- Small purse or pouch
- Pocket saver
- Belt
- Exhibit board with samples and completed articles
- Coaster
- Bag tag
- Book mark
- Comb case
- Wrist band
- Pencil holder

Exhibit Ideas – Theatre Arts
Acting: Play the Role
- Warm-up procedures
- Communicating with your body
- Group machines
- Articulation, breath control
- Expressing emotions
- Physical characters through movement
- Clown characters
- Improvising from dialogue
- Character-based monologues
- Music, movement to illustrate emotion
- Scenes based on life stories
- Imaginary Blob Pantomime
- Interviewing an actor

Puppetry: Become a Puppeteer
- Puppetry origins
- Puppetry styles
- Sock puppets
- Rod puppets
- Parade puppets
- Puppet theatre stage
- Puppet show based on story adaptation
- Puppet play
- Interview a puppeteer
- Types of puppets
- Shadow puppet show
- Home puppet stages
- Puppeteers of America

Stagecraft: Set the Stage
- Costume designs
- Stage makeup for specific characters
- Set designs
- Set props
- Sound effects
- Musical sounds
Sound, lighting cues
Costumes for different time periods
Costume designer interview
Scene, set changes
Color palette
Protean props
Radio play scene with sound effects
Tony Awards review, report
Light plot for a script, model
Theatre review of a play

Exhibit Ideas – Wood Arts
Display featuring eight or more different types of wood including identification and characteristics.
- Carved or whittled item
- Wood jewelry made from native wood
- Driftwood/Dry wood items
- Decoupage item
- Woodburned item
- Painting and decorating pre-cut wood items
- Item using other technique to top-dress or finish pre-cut wood
- Display of four different finishing techniques used on the same type of wood.

Exhibit Ideas – Advanced Visual Arts
Sketchbook Crossroads
**Drawing**
- Continuous line, contour drawing
- Shading techniques
- Perspective drawing
- Drawing in the round
- Draw with colored pencils and use turpentine (a turpentine substitute) to blend the colors.
- Sketch animals and other subjects using pen and ink.
- Calligraphy
- Cartooning

**Fiber Arts**
- Felting wool
- Using cotton linter pulp, create forms by casting or shaping.
- Batik – using dye and wax, create a unique fiber artwork.
- Weaving on a loom
- Inkle Loom weaving
- Experiment and create a collection of natural dyes.
- Using the Seminole system of patchwork, create a geometric pattern.

**Sculpture**
- Create functional containers from clay
- Clay Heads – sculpt a head with facial features out of clay.
- Mask Making – design a mask emphasizing a feeling and share how the art techniques you chose helped you portray the feeling.
- Connecting Boxes – assemble a sculpture of boxes and found objects.
- Sculpting with Cardboard – create a piece of textured artwork by gluing pieces of cardboard together and sculpt with an Exacto® knife.
- Floral Sculpting – use wire and nylon cloth to create a sculpture
- Plan out a design and then carve a form from Plaster of Paris
- Using your ingenuity create a mobile with wire and plastic.

**Portfolio Pathways**

**Painting**
- Techniques with Acrylics – paint a still life using fruit as the model
- Complete a painting with a variety of techniques using watercolors
- Experiment with abstract designs to complete a painting
- Sand Painting
- Painting a Self Portrait
- Develop a painting emphasizing action of the human figure
- Oil Painting, Impasto and Scumbling
- Oil Painting using Perspective
- Encaustic Painting

**Printing**
- Construct a cardboard collagraph and try intaglio printing method
- Create sun prints on blueprint paper
- Create original prints using an etched Plexiglas® plate
- Create intricate designs for printing using a wax resist method
- Making a Stamp
- Explore the potential of linoleum printing and design various prints
- Make a hand-drawn photograph negative and print it on photo paper as a positive
- One to One Monoprint

**Graphic Design**
- Optical Illusions
- Creating labels for a CD/DVD
- Drawing on a Computer – Become familiar with the drawing and painting tools on your computer – explore each creating a sample drawing.
- Create a portfolio of advertisements, shopping bags, labels, or hand tags that demonstrate the elements and principles of design.
- Create a self-portrait by using computer design software.
- Designing using Typography
- Designing with Color – explore the various ways to use color to change a design.
- Explore the concept of space using positive versus negative to create an image

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**Division 54 – Fiber Arts**

**Exhibit Ideas – Crochet**

**First or Second Year in Project**
- Simple crocheted item using the basic crochet stitch
- Simple crocheted item worked in rounds

**Second, Third or Fourth Year in Project**
- Crocheted item using one or more variations of the basic single crochet stitch

**Advanced Skills**
- Crocheted item using two or more colors

**Exhibit Ideas – Cross Stitch**

**Start with a small article (up to 6” of embroidery, not including border or frame) for first or second year and then increase in size and/or difficulty as you become more experienced.**
Exhibit Ideas – Embroidery for Enjoyment

First or Second Year in Project
- Decoration on article using two stitches learned in project
- Pillow using two stitches
- Sample incorporating at least two stitches

Second, Third or Fourth Year in Project
- Article incorporating at least four embroidery stitches
- Article using Russian Loop embroidery

Advanced Skills
- Article incorporating at least six or more stitches
- Candle Wicked article
- Crewel embroidery article
- Chicken Scratch article
- Article using Russian Loop embroidery, hardanger, or smocking

Exhibit Ideas – Latchhook
- Pillow
- Rug
- Wall décor

Exhibit Ideas – Macrame

Beginners
- Small animal
- Necklace
- Belt
- Bracelet
- Plant hangar
- Wall hanging
- Placemat

Intermediate
- Collar
- Candle cradle purse
- Wall hanging
- Belt
- Pillow
- Placemat
- Animals
- Plant hangar

Advanced
- Wall hanging
- Lamp shade
- Window treatment
- Hanging shelf
- Hanging table
- Lawn chair
- Hammock

Exhibit Ideas – Needlepoint
- Start with at least two basic tent stitches and increasing the type of stitches to three or four as you advance in skills.

Exhibit Ideas – Quilting for Fun
- Quilts
- Wall hangings
- Sampler
- Table runner
- Place mat
- Tote bag
- Purse
- Jackets
- Vests
- Pictures
- Pillows

Division 55 - Photography

Exhibit Ideas
- Camera parts
- Camera types
- How a camera works
- Film types
- Film care
- How to take a photo
- Digital photography
- Photo costs
- Rules of composition
- Photo stories
- Family tree in photos
- Trick photos
- Photo occupations
- Famous photographers
- How film works
- Film speeds
- Lighting types
- Effects of lighting
- Common print sizes
- How to crop a photo
- Cropping tools
- Flash photos
- Holiday photos
- Slides
- Photograms
- Interviewing a professional photographer
- Web search of photography sites and on-line resources
- Creative photography techniques
- Personal web page photo display
- Computer-enhanced photography
- How to take photos with special features

Division 71 – Food & Nutrition

Exhibit Ideas – Microwave Magic

Level A: Bag of Tricks
- How a Microwave Works
- Microwave Safety
- Cooking with Hot Spots
- Nutrition
- Microwave Snacks

Level B: Micro Magicians
- Shapes of Dishes
- Shape and Arrangement of Foods
- Covering Cooking Tips
- Power in Watts
- Healthy & Safe Food

Level C: Amazing Rays
- Browning and Defrosting
- Pasta Cooking Tips
- Tips for Cooking with Chocolate
- Candy Tips
- Storing and Reheating Leftovers

Level D: Presto Meals
- Oven Cooking Bags
- Comparison Shopping
- Warranties
- Tips for Selecting Food to Microwave
- Benefits of Microwave Cooking
- Microwave Cleaning Basics
- Quick and Easy Breakfast Ideas
Division 73 – Health
Exhibit Ideas
Create an educational poster or display related to a health topic.
Level 1: First Aid in Action
- First aid steps for cuts and scrapes
- Heimlich maneuver
- First aid steps for sprains, strains and bruises
- First aid steps for nosebleeds
- First aid steps for removing foreign objects from our bodies
- First aid steps for stings
- First aid steps for bites
- First aid steps for poisons
- First aid steps for broken bones
- First aid steps for burns
- Family first aid kit
- Set of first aid cards
Level 2: Staying Healthy
- "Health Smarts" self-assessment
- Germ hiding places in my home
- Tools to clean my teeth, hair, nails and skin
- How to clean my ears and eyes
- Power foods
- Healthy snack recipes
- Food portion sizes
- Smart choices for a healthy breakfast
- Weekly personal fitness test results for two months or more
- Personal physical activity inventory for a month or more
- Final "Show Your Smarts" project report
Level 3: Keeping Fit
- "Fitness Feedback" questionnaire
- Summary of “Fitness Feedback” interviews
- Water intake chart and results
- Nutrient-rich foods
- Product health claims
- Proper warm-up and cool-down routines when exercising
- Personal fitness plan
- My personal "Fitness File"

Division 81 – Child Development
Exhibit Ideas
Step 1: Growing On My Own
- Blooming bag
- Blooming caps
- Blooming garden gloves
- Feeling masks
- Portfolio of things done in this unit
- Roles and responsibilities poster
- Simple toy for an infant, toddler, or preschooler
- Special box
Step 2: Growing With Others
- Family tree or mobile
- Food pyramid poster
- Home Alone Box
- Jigsaw puzzle made by you
- Portfolio of things done in this project
Step 3: Growing In Communities
- Child Development Quiz board game
- Family tree
- First aid kit
- Game on child development careers
- Other Ideas
  - Job Description for a parent including classified ad
  - Poster illustrating basic first aid and poison control
  - Portfolio of things made in this project
  - Resume to seek a career in child care & development
  - Report of things made in this project
  - Report on a community service project conducted involving senior citizens
  - Report on a neighborhood Moving & Shaking Olympics
  - Television evaluation chart or poster

Division 83 – Home Environment
Exhibit Ideas – Design Decisions
Level 2: Grades 6–8
Furniture Options for Level 2
Exhibit any of the following items demonstrating color, texture, and/or line and shape that would help complete a room. Include your notebook.
- One piece of furniture you have reupholstered.
- One piece of furniture you have changed using decoupage, paint, fabric, etc.
- One cushion or one 2-piece set of cushions, preferably made by you, displayed with intended furniture.
- One window treatment, including picture of the treatment in use. (Should not be displayed on an actual window; use false walls or plywood no-glass window cutouts, or make special display rods.)
- One piece of furniture you have reupholstered.
- One item that you are using for a different purpose than it was originally designed for (i.e., bedsheet used to make a window treatment, drawer used as a wall shelf).
- A collection of 3-5 similar items (baskets, wicker items, wicker furniture, bentwood furniture, etc.) you have made and/or purchased for future use. (For example, a collection of baskets made to use as desk accessories or bathroom accessories, outdoor furniture and accessories, etc.)
Design Board Options for Level 2
- Display a floor plan for a living room, den, or family room. Include pictures (magazine or photographs) of the furniture that would be used. We suggest using graph paper to help get the drawing close to scale and to show where the furniture would be placed. Include paint samples and/or wall-treatment samples. Include your 3-ring notebook.
Display a floor plan for a full bathroom (toilet, sink, and shower and/or bathtub). Include pictures (magazine or photographs) of the fixtures that would be used. We suggest using graph paper to help get the drawing close to scale and to show where the fixtures would go. Include paint samples and/or wall-treatment samples and flooring samples. Include your 3-ring notebook.

Display a floor plan for a kitchen (including appliances and sink). Include pictures (magazine, appliance brochures, or photographs). We suggest using graph paper to help get the drawing close to scale and to show where the fixtures would go. Include paint samples and/or wall-treatment samples, flooring samples, and cabinet and/or countertop samples. Include your 3-ring notebook.

**Portfolio Options for Level 2**

- Samples of 3 different types of wall treatments with an explanation for each. Examples can include but are not limited to: paint only, wallpaper only, or combination of paint and wallpaper.
- Samples of 3 different floor treatments (pictures or flooring samples). Examples can include but are not limited to: hardwood, carpet, and/or tile. Include information on the advantages and disadvantages of each. Also include information on where it would be appropriate to use each flooring type.
- Samples of 3 different cabinet/countertop combinations (pictures or samples). Examples can include but are not limited to: granite, laminate, and/or stainless steel. Include information about the advantages and disadvantages of each.
- An energy-savings plan. Design an energy-savings plan for your family’s home or room(s). List the current energy use along with your plan to conserve energy. Plan should include techniques, how to conserve energy, cost savings, etc. You may add additional rooms or other plans to extend this option over a few years. Include each previous year’s work, but be sure that you indicate which information represents the current year’s work.

**Level 3: Grades 9–12**

**Furniture Options for Level 3**

Exhibit any of the following items demonstrating color, texture, and/or line and shape that would help complete your room along with your notebook.

- One piece of furniture you have refinished.
- One piece of furniture you have changed using decoupage, paint, fabric, etc.
- One cushion or one two-piece set of cushions, preferably made by you, displayed with intended furniture.
- One window treatment, including picture of the treatment in use. (Should not be displayed on an actual window; use false walls or plywood no-glass window cutouts, or make special display rods.)
- One piece of furniture you have re-upholstered.
- One item that you are using for a different purpose than it was originally designed for (i.e., bedsheet used to make a window treatment, drawer used as a wall shelf).
- A collection of 3-5 similar items (baskets, wicker items, wicker furniture, bentwood furniture, etc.) you have made and/or purchased for future use. (For example, a collection of baskets made to use as desk accessories or bathroom accessories, outdoor furniture and accessories, etc.)

**Design Board Options for Level 3**

- Display a floor plan for a child’s or teen’s bedroom. Include a special “theme” appropriate for a child or teen (i.e. princess, cartoon character, music group, favorite book, or special hobby). Include pictures (magazine or photographs) of the furniture that would be used. Plan should include techniques, how to conserve energy, cost savings, etc. Floor plan should be to scale with general measurements included. Include samples of window, wall and flooring treatments. Include your 3-ring notebook.
- Display a floor plan for a game room or family hobby room (i.e. room with pool table, ping pong table, and/or game table; home theater, or music room). Include pictures (magazine or photographs) of the furniture that would be used. Floor plan should be to scale with general measurements included. Include samples of window, wall and flooring treatments. Include your 3-ring notebook.
- Display a floor plan of a master suite (bedroom/bath). Include pictures (magazine or photographs) of the furniture that would be used. Floor plan should be to scale with general measurements included. Include samples of window, wall and flooring treatments, etc. This exhibit must also include fabric samples (i.e. bedspread, window treatment). Include 3-ring notebook.
- Display a floor plan of a one- or two-bedroom home or apartment. Include color scheme samples and furniture layouts. Floor plan should be to scale with general measurements included. Window, wall, and flooring treatment samples should be included for each room. (Pictures of furniture are not a requirement.) Include your 3-ring notebook.

**Portfolio Options for Level 3**

- Samples of 3 different lighting treatments. Explain how and when each is appropriate for use. Examples include but are not limited to: overhead, recessed, and table/floor lamps. Include information as it relates to energy use and efficiency.
- Samples of 3 different types of window treatments. Include information on the use of each kind and in what room each would be appropriate. Include information on the advantages/disadvantages of each. Also include information as it relates to energy use and efficiency.
- Using the same window (size and shape), apply 3 different types of window treatments. Explain the advantages and disadvantages of each. Explain what type of setting (formal, country, traditional, modern, etc.) would be appropriate for each treatment. Include information related to energy use and efficiency.
- A career plan. Interview an interior designer. Include the advantages and disadvantages of being a professional interior designer. Research 2 different design schools or training programs. Include the advantages and disadvantages of each program. Include the cost of attaining a degree or completing the program.
- An energy-savings plan. Design an energy-savings plan for your family’s home or room(s). List the current energy use along with your plan to conserve energy. Plan should include techniques, how to conserve energy, cost savings, etc. You may add additional rooms or other plans to extend this option over a few years. Include each previous year’s work, but be sure that you indicate which information represents the current year’s work.
Division 84 – Money Management

Exhibit Ideas – Financial Champions

Financial Champions
- Study or comparison of interest rates
- Money storage options (certificate of deposit, passbook, savings, checking, mutual funds, etc)
- Evaluation or comparison of credit or debit cards
- College save plans or loans
- Currency exchange rates
- Foreclosure
- Bankruptcy
- Spending plan/budget
- Diary of spending
- Needs versus wants comparison
- Costs of buying an item using a loan, credit card, or savings account
- How to use a checking account
- Comparison of three different types of financial institutions
- Create a money board game
- Study on several advertisements for one product or create your own advertisement for an intended audience
- Comparison shopping in a boutique, department store, on-line, or a thrift store
- Create a plan for financial success using goal setting worksheet (pgs 19-20, Book 1) and evaluate the plan

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Division 85 – Consumer Savvy

Exhibit Ideas

Create an educational poster or display related to a topic.

Level 1: The Consumer in Me
- Different shopping styles
- Goods, services in yellow pages
- Shopping list
- Savings plan
- Spending habits log
- Comparing costs of similar products
- Comparing costs of dissimilar products
- Cyber consumerism: safety
- Cyber consumerism: researching shopping sites

Level 2: Consumer Wise
- Consumer manners, customs
- Role of personal values in decision-making
- Planning for a major purchase
- Impact of advertising on children ages
- Create an ad
- Purpose of computer “cookies”
- Comparing results of search engines

Level 3: Consumer Roadmap
- Where products are manufactured
- Retailer policies on use of child labor
- US regulated global market vs. straight market economy
- Comparing different economies within US
- Checking web site information accuracy
- Comparing TV, radio ads to print
- Interviewing a shop owner
- Government departments protecting consumer rights
- Decision making when purchasing an expensive product
- Product complaint letter
- True costs of owning a car

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Division 91 – Clothing & Sewing

Exhibit Ideas – Sewing Challenges

Sewing Challenges – 12 & Under
- Special occasion dress, coat, or suit
- Prom dress
- Tailored suits
- Major pattern adaptation
- Educational display or poster on topics related to sewing challenges with specialty fabric

Sewing Challenges – 13-18
- Tailored suit
- Special occasion dress, coat, or suit
- Own pattern design
- Educational display or poster on topics related to sewing challenges with specialty fabric

Exhibit Ideas – Sewing Expressions

Level 3: Refine Design
- Combining patterns to make a design
- Using tailoring skills
- Outdoor wear garment
- Sewing with fabric containing Spandex
- Using computer to print on fabric
- Apparel or textile careers display
- New sewing tools, equipment
- Using Internet to personalize a pattern
- Comparing costs of constructing vs. tailoring or purchasing
- Destructing an old tailored coat
- Guide with embellishing ideas, techniques
- Fitted sheet
- Other bedroom item
- Curtain
- Slipcover for a chair

Exhibit Ideas – Shopping in Style

Share with others what you learned in this project. Exhibit may be a poster (14” x 22”), a notebook or a small display of educational nature. Examples may include information on:
- wardrobe planning
- clothing advertising
- marketing
- clothing care
- stain removal
- consumer comparison of clothing items
- cost per wearing of personal wardrobe items
- clothing label comparison (fiber and care labels)
- effect on buying decisions

Exhibit Ideas - Sew Fun
- Make a pin cushion (from page 20)
- Clothing item (top, pant, short or skirt) constructed from an “easy” or “beginner” pattern.

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