



2016-17 Rock County 4-H Project Guide

A 4-H project is an area that you want to learn more about during the year. There are projects on just about any topic you would like to study and explore.

Curriculum is NOT available through 4hOnline. The resources listed for each project may be ordered from one of these websites:

<http://www.4-hmall.org/Category/educationresources.aspx>

<http://fyi.uwex.edu/wi4hprojects/>

Don't forget to check out the project pages on the Wisconsin 4-H Web Site at <http://fyi.uwex.edu/wi4hprojects/>. You'll find project descriptions, Internet resources and links of interest, state specialist contacts, and other suggested 4-H resources.

Member's grade is as of January 1, 2017.

You'll learn more than subject matter as you complete your projects. You'll learn many life skills that you'll use every day of your life, such as understanding yourself, communicating better, solving problems, making decisions, and working with others. Good luck in your project selections. Have a great 4-H year!



ADULT LEADERSHIP

LEADER: ORGANIZATIONAL (CLUB CHAIR)

LEADER: CO-ORGANIZATIONAL (CO-CHAIR)

LEADER: ASSISTANT ORGANIZATIONAL

LEADER: PARENT ADVISORY BOARD MEMBER

LEADER: CLUB ACTIVITY

LEADER: CLUB ENROLLMENT

LEADER: KEY (COUNTY)

MUSIC AND DRAMA LEADER

SPORTS: SOFTBALL LEADER

SPORTS: VOLLEYBALL LEADER



YOUTH LEADERSHIP

YOUTH LEADERSHIP

(exhibit in Dept. 33, Youth Leadership classes)

- Assess your leadership skills
- Practice effective communication skills
- Set goals and resolve conflict
- Plan a group event

Grades: 6th through 13th

Resources: 07906, *My Leadership Journal for Grades 6-8*

07907, *My Leadership Portfolio for Grades 9-13*

YOUTH LEADERSHIP LEADER

Resources: 07904, *Leadership Mentor Guide for Grades 6-13*

Webpage:

<http://fyi.uwex.edu/wi4hprojects/community-involvement/youth-leadership/>

How to Select 4-H Projects:

Make a list of the things you like to do or want to learn more about. Talk over your list with your parents, leaders and friends. They may recognize some special things you are good at that you don't even realize you do well. Then compare your list with the projects described in this guide. Ask yourself if you have the equipment, money and time to do the projects that sound interesting. If this is your first year in 4-H, concentrate on doing only one or two projects well.

4-H Online Enrollment!

All 4-H members and leaders will enroll online at:

<http://wi.4honline.com>

4-H Families and Leaders: see the pages at the end of this Guide for complete instructions.

BEFORE you hit "submit", print a list of your projects to be sure you have properly enrolled!

If you are re-enrolling, be sure to delete the projects in which you are not enrolling!

If your enrollment does not go through, try using a different browser such as Chrome, Firefox etc.

PLEASE NOTE: Enrollment and other fees **MUST** be paid to your club as usual.

Questions? Contact the UW-Extension Office at 608-757-5696.



YOUNGER MEMBERS

CLOVERBUDS (*exhibit in Dept. 17, Cloverbud classes*)

- Learn about your 4-H club or group
- Begin developing different skills
- Explore your community
- Discover areas of project interest

Grades: Kindergarten (5K) through 2nd

Resources: 05561, *Cloverbuds – Activity Sheets*
(available from Rock County UWEX Office)

CLOVERBUDS LEADER

Resources: 05560, *4-H Discovery Program for 6-8 Yr. Olds*

Webpage:

<http://fyi.uwex.edu/wi4hprojects/younger-members/cloverbuds/>

EXPLORING (*exhibit in Dept. 17, Exploring classes*)

- Learn about the 4-H program
- Sample a variety of projects offered in 4-H
- Learn about yourself and others

Resource: 08171, *Exploring the Treasures of 4-H*

EXPLORING LEADER

Resources: 08172, *Exploring Treasures of 4-H Helper's Guide*

Webpage:

<http://fyi.uwex.edu/wi4hprojects/younger-members/exploring/>



SELF-DETERMINED

SELF-DETERMINED

(*exhibit in Department 33, Self-Determined class*)

- Create your own project or expand on an old one
- Select a project, develop a plan, identify resources
- Carry out and evaluate your plan

Resource: 4H272, *Designing Your Own Project*

SELF-DETERMINED LEADER

<http://fyi.uwex.edu/wi4hprojects/community-involvement/self-determined/>



ANIMAL SCIENCES

BEEF (*exhibit in Department 2*)

- Identify various beef breeds
- Halter-break and show a calf
- Fit and judge beef cattle
- Recognize and raise a healthy animal
- Learn beef carcass composition and retail meat cuts

Resources: 08143, *Bite Into Beef (grades 3-5)*

08144, *Here's the Beef (grades 6-8)*

08145, *Leading the Charge (grades 9-13)*

MA, *Meat Animal Project Record*

BEEF LEADER

Resources: 08146, *Beef Helper's Guide*

117R, *Beef Resource Handbook*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/beef/>

CATS (*exhibit in Department 13*)

- Select a cat
- Identify cat breeds
- Handle and groom a cat
- Care for its health
- Learn showmanship and cat behavior

Resources: 08148, *Purr-fect Pals (grades 3-5)*

08149, *Climbing Up! (grades 6-8)*

08150, *Leaping Forward (grades 9-13)*

CATS LEADER

Resource: 08151, *Cat Helper's Guide*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/cats/>

CAVIES (*exhibit in Dept. 10, Cavy & Hamster classes*)

CAVIES LEADER

Resource: 4H215R, *Cavy Resource Handbook*

DAIRY (*exhibit in Department 1*)

- Identify dairy breeds
- Learn how to select quality dairy calves
- Fit and show a calf
- Identify stages of calving and care
- Learn to balance rations

Resources: 08161, *Cowabunga (grades 3-5)*

08162, *Mooving Ahead (grades 6-8)*

08163, *Rising to the Top (grades 9-13)*

CANADA1, *Showmanship...Leading to Win*

CANADA2, *Preparing to Lead*

LDR, *Lifetime Dairy Record*

HMR, *WI 4-H Dairy Heifer Mgmt. Record*

DAIRY LEADER

Resource: 08164, *Dairy Cow Helper's Guide*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/dairy/>

DOGS (*exhibit in Department 9*)

- Learn basic skills for dog care and training
- Discover different dog breeds
- Learn how to keep a dog healthy and groomed
- Learn showmanship and training techniques
- Explore dog health and nutrition

Resources: 08166, *Wiggles and Wags (grades 3-5)*

08167, *Canine Connection (grades 6-8)*

08168, *Leading the Pack (grades 9-13)*

4H436, *The Basics of Training Your Dog*

4H439, *Dog Obedience – Novice & Beyond*

DOGS LEADER

Resources: 08169, *Dog Helper's Guide*
4H458, *4-H Dog Judging Guidelines*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/dogs/>

DAIRY GOATS & MEAT GOATS

(*exhibit in Department 5*)

- Identify dairy and meat goat breeds
- Learn to select a good animal
- Learn to keep your goat healthy
- Fit and show a dairy and/or meat goat
- Formulate rations and evaluate pastures

Resources: 08352, *Getting Your Goat (Dairy, grades 3-5)*
08353, *Stepping Out (Dairy, grades 6-8)*
08354, *Showing the Way (Dairy, grades 9-13)*
07909, *Just Browsing (Meat, grades 3-5)*
07910, *Get Growing with Goats (Meat, grades 6-8)*
07911, *Meating the Future (Meat, grades 9-13)*

DAIRY GOATS & MEAT GOATS LEADER

Resources: 08355, *Dairy Goat Helper's Guide*
07912, *Meat Goat Helper's Guide*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/goats/>

HORSE & PONY (*exhibit in Department 6*)

- Learn horse behavior and terms
- Study breeds and identify body parts
- Practice horse safety and horse selection
- Practice horsemanship and judging
- Learn about tack, feeding and diseases

Resources: 01518Y, *Giddy Up & Go (grades 3-5)*
01519Y, *Head, Heart & Hooves (grades 6-8)*
01520Y, *Stable Relationships (grades 9-13)*
01521Y, *Riding the Range (grades 3-7)*
01522Y, *Jumping to New Heights (grades 8-13)*
CO200, *Horses & Horsemanship*
CO201, *Horse Science*

HORSE & PONY LEADER

Resources: 01523F, *Horse Helper's Guide*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/horses>

Note: a member may enroll in EITHER the Horse & Pony project OR the Horseless Horse project but NOT both!

HORSELESS HORSE

(*exhibit in Department 6, Horseless Horse classes*)

- You do *not* need a horse in this project
- Explore horse behavior, terms and breeds
- Learn grooming, saddling and bridling
- Learn about safety and equipment
- Learn about horsemanship

Resources: 01518Y, *Giddy Up & Go (grades 3-5)*
01519Y, *Head, Heart & Hooves (grades 6-8)*
01520Y, *Stable Relationships (grades 9-13)*

HORSELESS HORSE LEADER

Resources: 01523Y, *Horse Helper's Guide*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/horses/>

POULTRY (*exhibit in Department 7*)

What you can do in this project:

- Identify poultry breeds
- Learn how to select and handle poultry
- Learn about chickens, turkeys, pigeons and waterfowl
- Fit and show poultry

Resources: 06363, *Scratching the Surface (grades 3-5)*
06364, *Testing Your Wings (grades 6-8)*
06365, *Flocking Together (grades 9-13)*
CIR878, *From Egg to Chick*
A2880, *Chicken Breeds & Varieties*
NCR209, *Bantams*
4H135, *Pigeons*
NCR060, *Small Turkey Flock Management*
A3311, *Raising Waterfowl*

POULTRY LEADER

Resource: 06366, *Poultry Helper's Guide*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/poultry/>

RABBITS (*exhibit in Department 8*)

- Learn about selecting and handling rabbits
- Identify rabbit breeds and body parts
- Explore health issues and feeding
- Learn about diseases and prevention
- Learn about rabbit breeding

Resources: 08080, *What's Hopping? (grades 3-5)*
08081, *Making Tracks (grades 6-8)*
08082, *All Ears (grades 9-13)*

RABBITS LEADER

Resource: 08083, *Rabbit Helper's Guide*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/rabbits/>

SHEEP (*exhibit in Department 4*)

- Identify sheep breeds and body parts
- Identify uses of wool and other by-products
- Fit and show sheep
- Learn to identify parasites and diagnose disease
- Use medications safely

Resources: 06367, *Lambs, Rams and You (grades 3-5)*
06368, *Shear Delight (grades 6-8)*
06369, *Leading the Flock (grades 9-13)*
MA, *Meat Animal Project Record*

SHEEP LEADER

Resources: 06370, *Sheep Helper's Guide*
194R, *Sheep Resource Handbook*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/sheep/>

SWINE (*exhibit in Department 3*)

What you can do in this project:

- Identify swine breeds, feeds and animal parts
- Practice judging market hogs
- Identify pork meat cuts
- Practice fitting and showing a hog
- Manage a feeding program

Resources: 08065, *The Incredible Pig (grades 3-5)*
08066, *Putting the Oink in Pig (grades 6-8)*
08067, *Going Whole Hog (grades 9-13)*
4H412, *Judging Breeding & Market Swine*
MA, *Meat Animal Project Record*

Note: Members MUST be MAQA/PQA certified prior to the county fair to be eligible to exhibit at the fair.

SWINE LEADER

Resources: 08068, *Swine Helper's Guide*
134R, *Swine Resource Handbook*

Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/swine/>

VETERINARY SCIENCE

(*exhibit in Department 10, Vet Science classes*)

- Interpret animal behavior
- Identify feed nutrients
- Describe animal life stages and systems
- Create health records for your animal
- Understand diseases that spread from animals to humans

Resources: 08048, *From Airedales to Zebras (grades 3-5)*
08049, *All Systems Go (grades 6-8)*
08050, *On the Cutting Edge (grades 9-13)*

VETERINARY SCIENCE LEADER

Resources: 08051, *Veterinary Science Helper's Guide*
Webpage: <http://fyi.uwex.edu/wi4hprojects/animal-sciences/veterinary-science/>



VISUAL ARTS

ART: VISUAL ARTS

(*exhibit in Department 18, Visual Arts classes*)

- Learn art through cutting, pasting and drawing
- Explore sculpting and constructing with fibers
- Learn basketry, beadwork, leathercraft, paper art....
- ...wearable art, wood crafts, metal enameling...
- ...creative stitchery, jewelry making and more!

Resources: 08140, *Visual Arts: Sketchbook Crossroads*
08141, *Visual Arts: Portfolio Pathways*
4H156, *Block Printing Member Guide*
4H158, *Metal Enameling Members Guide*

ART: VISUAL ARTS LEADER

Resources: CIR008, *Block Printing Leader Guide*
CIR009, *Metal Enameling Leader Guide*

Webpages: <http://fyi.uwex.edu/wi4hprojects/arts-communication/arts-crafts/>

DRAWING & PAINTING

(*exhibit in Department 18, Drawing & Painting classes*)

- Learn to draw with pencil, chalk, crayon, etc.
- Learn to blend and shade
- Paint with watercolor, oil and acrylics
- Mix colors
- Mat and frame your artwork

Resource: 4H169, *Drawing & Painting*

DRAWING & PAINTING LEADER

Webpage: <http://fyi.uwex.edu/wi4hprojects/arts-communication/drawing-painting/>

PHOTOGRAPHY (*exhibit in Department 20*)

- Explore the camera and learn to use it properly
- Learn the basics of lighting and composition
- Learn the use of different light sources
- Shoot photos that tell a story
- Learn about different lenses and special effects

Resources: PC1, *Focus on Photography (grades 3-5)*
PC2, *Controlling the Image (grades 6-8)*
PC3, *Mastering Photography (grades 9-13)*
IS401, *Action! Making Videos & Movies*

PHOTOGRAPHY LEADER

Webpage: <http://fyi.uwex.edu/wi4hprojects/arts-communication/photography/>



FAMILY, HOME & HEALTH

CHILD DEVELOPMENT (*exhibit in Department 29*)

- Learn about the development of babies and toddlers
- Learn how to make toys safe for small children
- Discover how to match toys to ages of children
- Make babysitting and first-aid kits
- Check for safety hazards

Resources: 08075, *On My Own (grades 3-4)*
08076, *Growing With Others (grades 5-6)*
08077, *Growing in Communities (grades 7-13)*

CHILD DEVELOPMENT LEADER

Webpage: <http://fyi.uwex.edu/wi4hprojects/family-home-health/child-development/>

HOME ENVIRONMENT

(exhibit in Dept. 28, Home Environment and/or Floral classes)

- Learn about home care
- Make decorative items for the home
- Explore the world of home interior design
- Use the principles of design to arrange your home
- Restore or make a heritage item

Resources: 4H425, *Exploring Your Home (grades 3-5)*
4H426, *Living With Others (grades 6-7)*
4H427, *Where I Live (grades 8-9)*
4H465, *In My Home (grades 10-13)*

HOME ENVIRONMENT LEADER

Webpage:

<http://fyi.uwex.edu/wi4hprojects/family-home-health/home-environment/>

FOODS & NUTRITION (exhibit in Department 25)

- Learn what is good to eat and how to fix simple foods
- Explore why calcium is important to our bodies
- Learn food preservation techniques
- Learn how to decorate cakes
- Plan a complete menu

Resources: 07144, *Six Easy Bites (grades 3-4)*
07146, *Tasty Tidbits (grades 5-6)*
07148, *You're the Chef (grades 7-9)*
07150, *Foodworks (grades 10-13)*
B0430, *Canning Fruits Safely*
B1159, *Canning Vegetables Safely*
B2909, *Making Jams, Jellies & Fruit Preserves*
B3278, *Freezing Fruits & Vegetables*
B2267, *Homemade Pickles & Relishes*
B2605, *Tomatoes Tart & Tasty*
B3345, *Canning Meat, Wild Game, Poultry & Fish*
B3570, *Canning Salsa Safely*

FOODS & NUTRITION LEADER

Resource: 07730, *Foods Curriculum Helper's Guide*

Webpage:

<http://fyi.uwex.edu/wi4hprojects/family-home-health/foods-nutrition/>

CLOTHING (exhibit in Department 26)

- Thread a sewing machine and identify fabrics
- Select and purchase a pattern
- Sew different buttonholes and seam finishes
- Use specialized sewing tools and equipment
- Design and embellish a garment

Resources: 08060, *Under Construction (grades 3-5)*
08061, *Fashion Forward (grades 6-8)*
08062, *Refine Design (grades 9-13)*

CLOTHING LEADER

Resource: 08063, *Sewing Expressions Helper's Guide*

Webpage:

<http://fyi.uwex.edu/wi4hprojects/family-home-health/clothing/>

KNITTING & CROCHETING (exhibit in Dept. 27)

- Learn to select and purchase yarn, thread and equipment
- Explore crocheting and finishing techniques
- Explore knitting and finishing techniques
- Correct knitting errors
- Learn how to care for finished items

Resources: CC1402, *Knitting Made Easy*
CC1403, *Crochet Made Easy*

KNITTING & CROCHETING LEADER

Webpages:

<http://fyi.uwex.edu/wi4hprojects/family-home-health/knitting/>
<http://fyi.uwex.edu/wi4hprojects/family-home-health/crocheting/>



MECHANICAL SCIENCES

MECHANICAL SCIENCES: Aircraft, Rockets, Bicycles, Small Engines, Scale Models (exhibit in Dept. 24)

- Build and fly model aircraft
- Learn bicycling rules and safe riding
- Build and launch a model rocket
- Tear down and reassemble a small engine
- Learn to assemble scale models

Resources: 06842, *Pre-Flight (grades 3-5)*
06843, *Lift Off (grades 3-5)*
06844, *Reaching New Heights (grades 6-8)*
06845, *Pilot in Command (grades 9-13)*
08334, *Bicycling for Fun (grades 3-6)*
08335, *Wheels in Motion (grades 7-13)*
4H424, *Guidelines for Building Scale Models*
08186, *Crank It Up! (grades 3-5)*
08187, *Warm It Up! (grades 6-8)*
08188, *Tune It Up! (grades 9-13)*

MECHANICAL SCIENCES LEADER

Resources: 08336, *Bicycle Helper's Guide*
08399, *Bicycle Fix It! (DVD)*
06846, *Aerospace Adventures Helper's Guide*
08189, *Small Engines Helper's Guide*

Webpages:

<http://fyi.uwex.edu/wi4hprojects/mechanical-sciences/bicycling/>
<http://fyi.uwex.edu/wi4hprojects/stem-science-technology-engineering-math/aerospace/>
<http://fyi.uwex.edu/wi4hprojects/mechanical-sciences/scale-models/>
<http://fyi.uwex.edu/wi4hprojects/mechanical-sciences/small-engines/>

COMPUTERS (exhibit in Department 21)

- Learn about hardware, software and components
- Explore how computers work
- Learn the various programs and their features
- Build and repair a computer
- Explore security issues and troubleshooting

Resources: 08346, *Newbie Know How (grades 3-5)*
08347, *Inside the Box (grades 6-8)*
08348, *Peer to Peer (grades 9-13)*

COMPUTERS LEADER

Resource: 08349, *Teens Teaching Tech*

Webpage:

<http://fyi.uwex.edu/wi4hprojects/arts-communication/computers/>

ELECTRICITY (*exhibit in Department 23*)

- Understand how to use electricity
- Identify electrical materials
- Wire a simple circuit
- Learn to read circuit diagrams
- Develop an electrical tool and supply kit

Resources: 06848, *Magic of Electricity (grades 3-5)*
06849, *Investigating Electricity (grades 6-7)*
06850, *Wired for Power (grades 8-9)*
06851, *Entering Electronics (grades 10-13)*

ELECTRICITY LEADER

Resource: 06852, *Electric Excitement Helper's Guide*

Webpage:

<http://fyi.uwex.edu/wi4hprojects/mechanical-sciences/electricity/>

TRACTORS (*exhibit in Tractor Contest, Dept. 24*)

- Learn and identify parts of the tractor
- Understand the basics of tractor maintenance
- Research different safety features and learn safety rules
- Practice farm and tractor safety
- Learn tractor and machinery maintenance

Resources: 4H961, *Starting Up: Getting to Know Your Tractor (grades 3-4, little or no experience)*
4H962, *Tractor Operations: Gearing Up for Safety (grades 5-6, little or no experience)*
4H963, *Moving Out: Learning About Your Tractor & Farm Machinery (grades 7-9, some experience)*
4H964, *Learning More: Learning About Agricultural Tractors & Equipment (grades 10-13, some experience)*

TRACTORS LEADER

Webpage:

<http://fyi.uwex.edu/wi4hprojects/mechanical-sciences/tractors/>

WOODWORKING (*exhibit in Department 22*)

- Learn safety practices when working with wood and tools
- Identify types of nails and wood
- Sand and paint a piece of wood
- Practice safety techniques
- Learn to make more difficult items

Resources: 06875, *Measuring Up (grades 3-4)*
06876, *Making the Cut (grades 5-6)*
06877, *Nailing It Together (grades 7-8)*
06878, *Finishing Up (grades 9-13)*

WOODWORKING LEADER

Resource: 06879, *Woodworking Helper's Guide*

Webpage:

<http://fyi.uwex.edu/wi4hprojects/mechanical-sciences/woodworking/>



NATURAL RESOURCES & ENVIRONMENTAL EDUCATION

EXPLORING YOUR ENVIRONMENT:

GENERAL NATURESPACE (*exhibit in Department 16, Naturespace classes*)

- Explore the four elements of life: sun, air, water and soil
- Connect to the environment through plants and animals
- Learn how the environment is affected by pollution
- Learn about birds, insects, fishing, forestry, recycling...
- ...geology, water, weather, wildlife, wildflowers & more

Resources: 08411, *Exploring Your Environment 1*
08410, *Exploring Your Environment 2*
08392, *Entomology Youth Guide (Insects, all grades)*
07598, *Take the Bait (Fishing, grades 3-5)*
07599, *Reel in the Fun (Fishing, grades 6-8)*
07600, *Cast into the Future (Fishing, grades 9-13)*
08038, *Follow the Path (Forestry, grades 3-5)*
08039, *Reach for the Canopy (Forestry, gr. 6-8)*
08040, *Explore the Deep Woods (Forestry, gr. 9-13)*
4H855, *Give Water A Hand – Action Guide*

EXPLORING YOUR ENVIRONMENT:

GENERAL NATURESPACE LEADER

Resources: 08412, *Exploring Your Environment Facilitator Guide*
08393, *Entomology Facilitator Guide*
07601, *Fishing Adventures- Helper's Guide*
08041, *Forestry Helper's Guide*
4H850, *Give Water A Hand Leader Guide*
CE-456, *Education Connection*
ER-001, *WI Endangered & Threatened Species List*

Webpages:

<http://fyi.uwex.edu/wi4hprojects/natural-sciences/exploring-your-environment/>
<http://fyi.uwex.edu/wi4hprojects/natural-sciences/entomology/>
<http://fyi.uwex.edu/wi4hprojects/natural-sciences/fishing/>
<http://fyi.uwex.edu/wi4hprojects/natural-sciences/forestry/>
<http://fyi.uwex.edu/wi4hprojects/natural-sciences/recycling/>
<http://fyi.uwex.edu/wi4hprojects/natural-sciences/water/>
<http://fyi.uwex.edu/wi4hprojects/natural-sciences/wildflowers/>



SHOOTING SPORTS EDUCATION

NOTE: Archery and Gun Safety are TWO SEPARATE projects. If you want to shoot BOTH Archery AND Guns, you must enroll in BOTH projects!

ARCHERY (exhibit in Department 16, Shooting Sports Competition-Archery and/or Archery Sportsmanship)

- Learn the fundamentals of archery marksmanship
- Learn the parts of bows and arrows
- Learn rules and safety guidelines
- Make archery equipment
- Shoot with sights and different bows

ARCHERY LEADER

Resource: Each Archery Leader should attend a Certification Training to receive the *Archery Guide and WI Shooting Sports Basic 4-H Guidelines*. For more information see webpage.

Webpage: <http://fyi.uwex.edu/wi4hshootingports/>

GUN SAFETY (exhibit in Dept.16, Shooting Sports Competition-Guns and/or Gun Safety Sportsmanship)

- Learn safety rules and guidelines
- Learn marksmanship and shooting procedures
- Learn and practice with air pistol & air rifle (all ages)
- Learn and practice with shotgun, rifle and muzzleloading (only 12 years old and above)
- Learn to plan and equip yourself for a hunt

GUN SAFETY LEADER

Resource: Each Shooting Sports Leader should attend a Certification Training to receive the *WI Shooting Sports Basic 4-H Guidelines*. For more information see webpage below.

Webpage: <http://fyi.uwex.edu/wi4hshootingports>



PLANT & SOIL SCIENCES

CROPS (exhibit in Dept. 14, Field Crops classes)

- Learn about corn varieties, germination & planting
- Explore types of small grains crops
- Establish and manage a forage crop
- Learn about nutrients, harvesting and storage
- Practice integrated pest management

Resources: 4H440, *Marketing Your 4-H Crops*
RS1, *Record Sheet – Crops Management*

CROPS LEADER

Webpages:

<http://fyi.uwex.edu/wi4hprojects/plant-soil-sciences/corn/>

<http://fyi.uwex.edu/wi4hprojects/plant-soil-sciences/forage/>

<http://fyi.uwex.edu/wi4hprojects/plant-soil-sciences/small-grains/>

VEGETABLES AND FRUITS

(exhibit in Department 14, Garden and Fruit classes)

- Identify plant parts and their functions
- Explore germination and start a plant from a cutting
- Plan an outdoor garden
- Prepare a vegetable exhibit for show
- Select the best fruit cultivars for your garden

Resources: 07162, *Gardening: See Them Sprout* (gr. 3-5)
07163, *Gardening: Let's Get Growing* (gr. 6-8)
07164, *Gardening: Take Your Pick* (gr. 9-13)
07165, *Gardening: Growing Profits* (gr. 10-13)
A3306, *Exhibiting & Judging Vegetables*
A1597, *Growing Strawberries in Wisconsin*
A1610, *Growing Raspberries in Wisconsin*
A1960, *Growing Currants, Gooseberries, & Elderberries in Wisconsin*
A1656, *Growing Grapes in Wisconsin*
A2072, *Growing Pears in Wisconsin*

VEGETABLES AND FRUITS LEADER

Resource: 4H1041W, *Gardening Helper's Guide*

Webpages:

<http://fyi.uwex.edu/wi4hprojects/plant-soil-sciences/vegetables/>

<http://fyi.uwex.edu/wi4hprojects/plant-soil-sciences/fruits/>

HORTICULTURE (exhibit in Department 15)

- Identify plant parts and their functions
- Plant flowers and make flower arrangements
- Grow house plants and start a plant from a cutting
- Select and start new plants and grow transplants
- Maintain your home grounds and landscaping

Resources: 4H1301A, *Forcing Spring Flowering Bulbs*
A2935, *Evaluating & Judging Flowers & Indoor Plants*
4H328, *Propagating & Growing House Plants*
4H321, *4-H Lawn Care*
A3067, *Selecting, Planting & Caring for Shade Trees*
G1923, *Planning & Designing Your Home Landscape*

HORTICULTURE LEADER

Webpages:

<http://fyi.uwex.edu/wi4hprojects/plant-soil-sciences/flowers/>

<http://fyi.uwex.edu/wi4hprojects/plant-soil-sciences/house-plants/>

<http://fyi.uwex.edu/wi4hprojects/plant-soil-sciences/home-grounds/>