



# 2018-19 Rock County 4-H Project Guide

## WHAT IS A 4-H PROJECT?

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 learn about and explore.

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!

## HOW DO I SELECT MY 4-H PROJECTS?

- Make a list of the things you like to do or want to learn more about.
- 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.
- You may enroll in as many projects as you like; however, be sure you will have the time to complete them! (See the Fair Premium Book for the number of projects in which you can exhibit.)
- If this is your first year in 4-H, concentrate on doing only one or two projects well.
- See the "4-H Achievement Requirements" section in the Rock County 4-H policy located at <https://fyi.uwex.edu/4hrock/> for more information on completing 4-H projects.

## **SPECIAL NOTE FOR YOUTH IN 5K, 1<sup>st</sup> or 2<sup>nd</sup> GRADE**

***You are CLOVERBUDS and must enroll in the CLOVERBUD project!***

### WHAT ARE THE ENROLLMENT DEADLINES?

Re-enrolling members must re-enroll by **November 15<sup>th</sup>**.

New members may enroll at any time.

## 4-H Online Enrollment!

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

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

**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.

### **Ordering 4-H Literature:**

Literature is NOT available through 4hOnline. Literature may be ordered from one of these websites OR found on the website listed below the project name.

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

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

### **Member's grade is as of January 1, 2019.**

See the Rock County 4-H policy at <http://fyi.uwex.edu/4hrock/files/2011/05/POLICY.4H-revised-April-2017-1.pdf> for more information on member eligibility



## **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: 6<sup>th</sup> through 13<sup>th</sup>

- YOUTH LEADERSHIP LEADER**  
Webpage:  
<http://fyi.uwex.edu/wi4hprojects/community-involvement/youth-leadership/>



## **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 2<sup>nd</sup>  
Resources: 05561, *Cloverbuds – Activity Sheets*  
(available from Rock County UWEX Office)

- CLOVERBUDS LEADER**  
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

- EXPLORING LEADER**  
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

- 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

- BEEF LEADER**  
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

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

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

- CAVIES LEADER**

### **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

### **DAIRY LEADER**

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

### **DOGS LEADER**

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

### **DAIRY GOATS & MEAT GOATS LEADER**

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

### **HORSE & PONY LEADER**

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

### **HORSELESS HORSE LEADER**

Webpage:

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

### **POULTRY** (*exhibit in Department 7*)

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

### **POULTRY LEADER**

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

### **RABBITS LEADER**

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

### **SHEEP LEADER**

Webpage:

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

### **SWINE** (*exhibit in Department 3*)

- 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

**Note:** Members MUST be YQCA (formerly MAQA) certified prior to the county fair to be eligible to exhibit at the fair.

### **SWINE LEADER**

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

### **VETERINARY SCIENCE LEADER**

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!

### **ART: VISUAL ARTS LEADER**

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

### **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

### **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

### **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

### **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

### **FOODS & NUTRITION LEADER**

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

### **CLOTHING LEADER**

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

### **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

### **MECHANICAL SCIENCES LEADER**

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

### **COMPUTERS LEADER**

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

### **ELECTRICITY LEADER**

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

**Note: Members must be 12 years of age or older to enroll in this project.**

### **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

### **WOODWORKING LEADER**

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

### **EXPLORING YOUR ENVIRONMENT: GENERAL NATURESPACE LEADER**

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/wi4hshootingsports/>

**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

**NOTE:** Gun Safety members who have NOT previously done so need to attend a safety training class prior to participating in the Fair Gun Competition. Watch the 4-H newsletter “Cloverpatch” for dates of training sessions.

**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/wi4hshootingsports/>

**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

**VEGETABLES AND FRUITS LEADER**

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

**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/>



**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

**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/>