



# 2021-22 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 4-H year (Oct. 1, 2021-Sept. 30, 2022). There are projects for many topics for you to learn about and explore.

How do I select my 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 (See the [Rock County 4-H Fair Premium Book](#) for the number of entries you can exhibit).
- If this your first year in 4-H, concentrate on doing only one or two projects well.

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. Have a great 4-H year!

## ENROLLMENT

Information about enrolling is available on the Wisconsin 4-H website [Wisconsin 4-H website](#)

Rock County 4-H information is on the [Rock County Positive Youth website](#)

Rock County 4-H Club information is available on the Rock County 4-H Map [Rock County 4-H Map](#)

Find additional project information the [Wisconsin 4-H Projects website](#)

Project curriculum is listed under most project areas. Please purchase curriculum from [Shop 4-H](#)

- Member's grade is as of January 1, 2022
  - 5K-2<sup>nd</sup> grade – You are a Cloverbud and must enroll in the Cloverbud project.
- **Plan to enroll in 4-H now and know that you may add or delete projects. Rock County 4-H members who are enrolled by March 1, 2022 are eligible to exhibit at the Rock County 4-H Fair. The projects you are enrolled in on that date are the project area you may exhibit in.**
- 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.
- Enrollment and other fees **MUST** be paid to your 4-H Club as usual.

## IMPORTANT DATES

October 1, 2021– September 30, 2022 are the dates of the 4-H Year.

March 1, 2022 – Deadline to add projects in 4HOnline to exhibit at the Rock Co. 4-H Fair.

April 1, 2022 – June 1, 2022 – Online Fair Entry to exhibit at the Rock Co. 4-H Fair.

## BE A 4-H VOLUNTEER!

There are opportunities for adult volunteers to become project leaders in all of the projects listed in this guide! Find information about volunteer opportunities and descriptions on the [Wisconsin 4-H website](#)

## **ANIMAL SCIENCES**

Members in some Animal Sciences projects must be YQCA Certified prior to exhibit at county and state fairs.

### **BEEF** (exhibit in Dept. 2)

[Beef 1-Bite Into Beef](#)

[Beef 2-Here's the Beef](#)

[Beef 3-Leading the Charge](#)

[Beef Helper's Guide](#)

- 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

### **CATS** (exhibit in Dept. 13)

[Cat 1-Purr-fect Pals](#)

[Cat 2-Climbing Up](#)

[Cat 3-Leaping Forward](#)

[Cat Helper's Guide](#)

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

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

[Cavy Resource Handbook: A 4-H Guide to Guinea Pigs](#)

### **DAIRY** (exhibit in Dept. 1)

[Dairy 1-Cowabunga!](#)

[Dairy 2-Mooving Ahead](#)

[Dairy 3-Rising to the Top](#)

[Dairy Cattle Helper's Guide](#)

- 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 GOATS & MEAT GOATS** (exhibit in Dept. 5)

[Dairy Goat 1-Getting Your Goat](#)

[Dairy Goat 2-Stepping Out](#)

[Dairy Goat 3-Showing the Way](#)

[Dairy Goat Helper's Guide](#)

[Meat Goat 1-Just Browsing](#)

[Meat Goat 2-Growing with Meat Goats](#)

[Meat Goat 3-Meating the Future](#)

[Meat Goat Helper's Guide](#)

- 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

### **DOGS** (exhibit in Dept. 9)

[Dog 1-Wiggles and Wags](#)

[Dog 2-Canine Connection](#)

[Dog 3-Leading the Pack](#)

### [Dog Helper's Guide](#)

- 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

### **HORSE & PONY** (exhibit in Dept. 6)

[Horse 1-Giddy Up and Go](#)

[Horse 2-Head, Heart and Hooves](#)

[Horse 3-Stable Relationships](#)

[Horse 4-Riding the Range](#)

[Horse 5-Jumping to New Heights](#)

[Horse Helper's Guide](#)

- 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

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

### **HORSELESS HORSE**

(exhibit in Dept. 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
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### **POULTRY** (exhibit in Dept. 7)

[Poultry 1-Scratching the Surface](#)

[Poultry 2-Testing Your Wings](#)

[Poultry 3-Flocking Together](#)

[Poultry Helper's Guide](#)

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

### **RABBITS** (exhibit in Dept. 8)

[Rabbit 1-What's Hoppening](#)

[Rabbit 2-Making Tracks](#)

[Rabbit 3-All Ears](#)

[Rabbit Helper's Guide](#)

- 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

### **SHEEP** (exhibit in Dept. 4)

[Sheep 1-Rams, Lambs & You](#)

[Sheep 2-Shear Delight](#)

[Sheep 3-Leading the Flock](#)

[Sheep Helper's Guide](#)

- 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

## **SWINE** (exhibit in Dept. 3)

[Swine 1-The Incredible Pig](#)

[Swine 2-Putting the Oink in Pig](#)

[Swine 3-Going Whole Hog](#)

[Swine Helper's Guide](#)

- 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

## **VETERINARY SCIENCE**

(exhibit in Dept. 10, Vet Science classes)

[Veterinary Science 1-From Airedales to Zebras](#)

[Veterinary Science 2-All Systems Go!](#)

[Veterinary Science 3-On the Cutting Edge](#)

[Veterinary Science Helper's Guide](#)

- 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

## **ARTS & COMMUNICATIONS**

### **ART: VISUAL ARTS**

(exhibit in Dept. 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!

### **PHOTOGRAPHY** (exhibit in Dept. 20)

[Photography 1-Photography Basics](#)

[Photography 2-Next Level Photography](#)

[Photography 3-Mastering Photography](#)

- 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

### **DRAWING & PAINTING**

(exhibit in Dept. 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

## **FAMILY, HOME & HEALTH**

### **CHILD DEVELOPMENT** (exhibit in Dept. 29)

[Child Development A-Building a Bright Beginning](#)

[Child Development B-Building Blocks of Learning](#)

[Child Development C-Building a Strong Foundation](#)

[Child Development D-Building Relationships Toward a Brighter Tomorrow](#)

- 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

### **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

### **FOODS & NUTRITION** (exhibit in Dept. 25)

[Foods & Nutrition 1-4-H Cooking 101](#)

[Foods & Nutrition 2-4-H Cooking 201](#)

[Foods & Nutrition 3-4-H Cooking 301](#)

[Foods & Nutrition 4-4-H Cooking 401](#)

[Foods & Nutrition-4-H Cooking Helper's Guide](#)

[Home Food Preservation: Freezing Project Manual](#)

[Home Food Preservation: Drying Project Manual](#)

[Home Food Preservation: Boiling Water Canning Project Manual](#)

[Home Food Preservation: Pressure Canning Project Manual](#)

- 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

### **CLOTHING** (exhibit in Dept. 26)

[Clothing 1-FUNDamentals](#)

[Clothing 2-Simply Sewing](#)

[Clothing 3-A Stitch Further](#)

[Clothing Supplement-Maker's Guide to Sewing Stuff](#)

(Accompanies Clothing 1 & 2)

[Clothing Supplement-Beyond the Needle](#)

(Accompanies Clothing 1, 2 & 3)

- 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

### **KNITTING OR 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

## **NATURAL RESOURCES & ENVIRONMENTAL EDUCATION**

### **EXPLORING YOUR ENVIRONMENT:**

## GENERAL NATURESPACE

(exhibit in Dept. 16, Naturespace classes)

[Fishing 1: Take the Bait](#)

[Fishing 2: Reel in the Fun](#)

[Fishing 3: Cast Into the Future](#)

[Fishing Helper's Guide](#)

[Forestry 1: Follow the Path](#)

[Forestry 2: Reach for the Canopy](#)

[Forestry 3: Explore the Deep Woods](#)

[Forestry Helper's Guide](#)

[Geology: Introduction to the Study of the Earth](#)

[Insects 1-Teaming with Insects Level 1](#)

[Insects 2-Teaming with Insects Level 2](#)

[Insects 3-Teaming with Insects Level 3](#)

[Insects-Helper's Guide](#)

[Weather and Climate Science Level 1](#)

[Weather and Climate Science Level 2](#)

[Weather and Climate Science Level 3](#)

[Weather and Climate Science Helper's Guide](#)

[Wildlife Science 1](#)

[Wildlife Science 2](#)

[Wildlife Science 3](#)

[Wildlife Science Helper's Guide](#)

- 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

### SHOOTING SPORTS EDUCATION

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

**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.

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

Archery-Shooting Sports Education Project

[Archery-Shooting Sports Education Project](#)

- 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

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

Gun Safety-Shooting Sports Education Project

[Gun Safety-Shooting Sports Education Project](#)

- 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 muzzle loading (only 12 years old and above)
- Learn to plan and equip yourself for a hunt

## GUN SAFETY LEADERS

Each Shooting Sports Leader should attend a Certification Training to receive the *WI Shooting Sports Basic 4-H Guidelines*. For more information see [Wisconsin 4-H Shooting Sports Website](#)

## ARCHERY LEADERS

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 [Wisconsin 4-H Shooting Sports Website](#)

## PLANT & SOIL SCIENCES

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

[Crops-Corn](#)

[Crops-Small Grains-Wheat, Oats, Barley & Rye](#)

[Crops-Soybeans](#)

- 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

## VEGETABLES OR FRUITS

(exhibit in Dept. 14, Garden and Fruit classes)

[Gardening A: See Them Sprout](#)

[Gardening B: Let's Get Growing](#)

[Gardening C: Take Your Pick](#)

[Gardening D: Growing Profits](#)

- 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

**HORTICULTURE** (exhibit in Dept. 15)

[Horticulture 1-Floriculture Level A](#)

[Horticulture 2- Floriculture Level B](#)

[Horticulture 3- Floriculture Level C](#)

[Horticulture 4- Floriculture Level D](#)

- 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

## MECHANICAL SCIENCES

**AEROSPACE: AIRCRAFTS** (exhibit in Dept. 24)

- building workshop
- glider built to fly
- rubber-band powered aircraft built to fly
- U-control aircraft
- mini-aircraft drone obstacle course
- spot landing contest

**BICYCLES** (exhibit in Dept. 24)

[Bicycle 1-Bicycling for Fun](#)

[Bicycle 2-Wheels in Motion](#)

### Bicycle Helper's Guide

- learn the essentials for getting started safely
- explore the basics toward lifelong cycling
- learn safety, road rules and planning for a pleasant ride
- choose a bike that's right for you
- practice bike maintenance
- learn road rules

### **COMPUTERS** (exhibit in Dept. 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

### **ELECTRICITY** (exhibit in Dept. 23)

#### Electricity 1- Magic of Electricity

#### Electricity 2-Investigating Electricity

#### Electricity 3-Wired for Power

#### Electricity 4-Entering Electronics

#### Electricity Helper's Guide

- Understand how to use electricity
- Identify electrical materials
- Wire a simple circuit
- Learn to read circuit diagrams

### **MODEL ROCKETS** (exhibit in Dept. 24)

#### Model Rockets 1-Aerospace Adventures: Pre-Flight

#### Model Rockets 2-Aerospace Adventures: Lift Off

#### Model Rockets 3-Aerospace Adventures: Reaching New Heights

#### Model Rockets 4-Aerospace Adventures: Pilot in Command

#### Model Rockets Flight Crew Helper's Guide

- building tips
- rocketry finishing (sanding, painting, applying decals)
- safety and stability
- air-powered rocket information
- launching rockets
- spot landing contest

### **SMALL ENGINES** (exhibit in Dept. 24)

#### Small Engines 1-Crank It Up

#### Small Engines 2-Warm It Up

#### Small Engines 3-Tune It Up

#### Small Engines Helper's Guide

- learn the basics of small engines
- explore external engine parts and tools
- identify the uses of small engines and safety issues
- explore the internal parts of engines
- learn about engine sizes and safety issues
- explore different jobs related to small engines
- tear down and rebuild an engine
- learn to use diagnostic tools
- research rules and regulations in using small engines

### **SCALE MODELS** (exhibit in Dept. 24)

- assemble and create scale models of trains, cars, etc.
- learn how to obtain materials you need in construction
- learn to display your model and judge it

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

#### Tractors A-Starting Up: Getting to Know Your Tractor

#### Tractors B-Tractor Operation: Gearing Up for Safety

#### Tractors C-Moving Out: Learning About Your Tractor

#### Tractors D-Learning More: Learning About Agricultural Tractors & Equipment

- 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

### **WOODWORKING** (exhibit in Dept. 22)

#### Woodworking 1-Measuring Up

#### Woodworking 2-Making the Cut

#### Woodworking 3-Nailing it Together

#### Woodworking 4-Finishing Up

#### Woodworking Helper's Guide

- 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

## **YOUNGER MEMBERS**

### **CLOVERBUDS – Grades K-2<sup>nd</sup>**

#### My 4-H Cloverbud Year

(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

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

#### Exploring-Exploring the Treasures of 4-H

#### Exploring-Helper's Guide

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

## **YOUTH LEADERSHIP**

### **YOUTH LEADERSHIP – Grades 6-13**

#### Leadership Road Trip: Where are You Going?

(exhibit in Dept. 33, Youth Leadership classes)

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

## **SELF-DETERMINED**

### **SELF-DETERMINED**

(exhibit in Dept. 33, Self-Determined class)

- Create a Farm Model Display
- Choose a project area you'd like to learn about