



UW-MADISON EXTENSION

# Marathon County 4-H 2021-2022 Project Guide

***This is your guide....*** A 4-H project is an area you want to learn more about during the year. There are projects on just about any topic you would like to study and explore, from art to woodworking, from computers to rabbits, from clothing to small engines. The projects listed are all offered in Marathon County.

Do not forget to check out the project pages on the Wisconsin 4-H website:

[4h.extension.wisc.edu/opportunities/projects](http://4h.extension.wisc.edu/opportunities/projects). On these pages, you will find descriptions for statewide projects, Internet resources and links of interest, county fair exhibit suggestions, state specialist contacts, and other suggested 4-H resources.

Remember, you will learn more than “subject matter” as you complete your projects. You will learn many “life” skills that you will 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 to Select 4-H Projects**

### 4-H members . . .

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 do not even realize you do well.

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.

\*Note: If this is your first year in 4-H, focus on doing only two or three projects well.

### 4-H leaders . . .

Make a list of things you are skilled in and/or enjoy doing

Compare your list with projects described.

Select projects that you would like to lead youth in your club with or co-lead with other volunteers,

If there are several units within a project and you are a leader for only one, then choose that unit. Example:

You are an Archery Shooting Sports leader, so select Archery project.

\*Note: Select multiple projects if you are leader for for more than one project unit. Example: a Shooting Sports leader for archery and air pistol, choose both.

TO VIEW THE COMPLETE 10 PAGE  
MARATHON COUNTY 4-H PROJECT  
GUIDE, PLEASE VISIT  
[MARATHON.EXTENSION.WISC.EDU](http://MARATHON.EXTENSION.WISC.EDU)

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## YOUTH LEADERSHIP

### AMBASSADORS

#### YOUTH LEADERSHIP (Exhibits in Dept. 33)

What you can do in this project:

- **Grades 3-5:**
  - Assess your leadership skills
  - Practice effective communication skills
  - Set goals and resolve conflict
  - Plan a group event
- **Grades 6-8:**
  - Explore how leaders are different
  - Develop a multi-media presentation
  - Set and achieve team goals
  - Practice teamwork
- **Grades 9-13:**
  - Build trust in a group
  - Assess your own strengths & weaknesses
  - Write vision and mission statements
  - Contribute to a group project



## YOUNGER MEMBERS

### AFTERSCHOOL PROJECTS

#### CLOVERBUDS (Exhibits in Dept. 36)

What you can do in this project:

- Learn about your 4-H club or group
- Begin developing different life skills
- Explore your community and working together
- Discover areas of project interest
- Share with others what you have learned

Grades: 5 Kindergarten – 2<sup>nd</sup> Grade Only

[4h.extension.wisc.edu/opportunities/projects/cloverbuds/](https://4h.extension.wisc.edu/opportunities/projects/cloverbuds/)

#### EXPLORING (Exhibits in Dept. 17)

What you can do in this project:

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

Grades: 3-4 Only

<https://fyi.extension.wisc.edu/wi4hprojects/younger-members/exploring/>



## SERVICE LEARNING & CITIZENSHIP

#### CIVIC ENGAGEMENT (Exhibits in Dept. 33)

What you can do in this project:

- Discover and discuss public issues
- Plan a project to change or improve your community

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/community-involvement/civic-engagement-project/>

### HISTORY & HERITAGE (Exhibits in Dept. 29)

#### LATINO CULTURAL ARTS (Exhibits in Dept. 29)

What you can do in this project:

- Understand the Latino culture by exploring traditional art
- Make Latino instruments, jewelry, weavings, murals, etc.
- Celebrate Latino holidays, sample foods and tell stories

Grades: 3-13

#### SERVICE LEARNING (Exhibits in Dept. 33)

What you can do in this project:

- Learn to give back to your community
- Reflect on your experiences
- Identify community needs
- Plan a service project and execute the idea

Grades: 3-13



## SELF-DETERMINED

#### SELF-DETERMINED (Exhibits in Dept. 33)

What you can do in this project:

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

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/start-your-own-project/>



## ANIMAL SCIENCES

#### BEEF (Exhibits in Dept. 2)

What you can do in this project:

- Identify various beef breeds and parts
- Halter-break, fit, show and judge beef cattle
- Recognize and raise a healthy animal
- Learn to market animal and about meat cuts

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/project/s/large-animals/beef-project/>

#### CAGE BIRDS (Exhibits in Dept. 10)

#### CATS (Exhibits in Dept. 13)

What you can do in this project:

- Select a cat and care for its health
- Identify cat breeds, parts of a cat
- Explore tricks & traveling with a cat

- Learn showmanship and cat behavior

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/small-animals/cats-project/>

## **CAVIES** (Exhibits in Dept. 10)

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

What you can do in this project:

- Identify dairy breeds and parts of the animal
- Learn how to select, fit, show and judge
- Identify stages of calving, care and milking
- Assemble tools needed for packing a show box

Grades: 3-13

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

What you can do in this project:

- Learn basic skills for dog care and training
- Discover different dog breeds and parts of dog
- Learn how to keep a dog healthy and groomed
- Explore careers related to dogs

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/small-animals/dogs-project/>

## **DOGS OBEDIENCE TRAINING**

## **EXOTIC ANIMALS** (Exhibits in Dept. 10)

### **DAIRY GOAT** (Exhibits in Dept. 5)

What you can do in this project:

- Select, manage, fit, show, and judge goats
- Learn responsible goat ownership
- Feed your goat for maximum production
- Gain leadership and explore career opportunities

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/large-animals/dairy-goat-project/>

### **MEAT GOAT** (Exhibits in Dept. 5)

What you can do in this project:

- Identify meat goat breeds and parts
- Feed and care for a meat goat
- Understand reproduction cycle and keep records
- Fit and show meat goats

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/large-animals/meat-goats-project/>

### **PYGMY GOAT** (Exhibits in Dept. 5)

## **HORSE** (Exhibits in Dept. 6)

What you can do in this project:

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

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/large-animals/horse-project/>

## **HORSELESS HORSE** (Exhibits in Dept. 6)

What you can do in this project:

- 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

Grades: 3-13

## **LLAMAS**

<https://4h.extension.wisc.edu/opportunities/projects/large-animals/llamas-and-alpacas-project/>

## **PETS** (Exhibits in Dept. 10)

What you can do in this project:

- Explore your favorite pet or select a pet
- Identify pet body parts and proper health
- Learn to provide a safe environment
- Understand how genetics work & welfare issues

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/small-animals/pocket-pets-project/>

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

What you can do in this project:

- Identify poultry breeds and parts of the bird
- Learn parts and functions of the egg
- Learn how to select, handle, fit and show poultry
- Prevent diseases and process a chicken

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/small-animals/poultry-project/>

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

What you can do in this project:

- Learn about selecting and handling rabbits
- Identify rabbit breeds and body parts
- Explore health issues and feeding
- Learn about breeding, genetics, and marketing rabbits

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/small-animals/rabbits-project/>

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

What you can do in this project:

- Identify sheep breeds and body parts
- Identify uses of wool and other by-products

- Fit, show and judge sheep, judge wool
- Market sheep products and teach others

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/project/s/large-animals/sheep-project/>

## **SMALL ANIMALS** (Exhibits in Dept. 10)

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

What you can do in this project:

- Identify swine breeds, feeds and animal parts
- Practice judging, fitting & showing market hogs
- Design a preventative herd health plan
- Identify pork meat cuts

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/large-animals/swine-project/>

## **TROPICAL FISH** (Exhibits in Dept. 10)

### **VETERINARY SCIENCE** (Exhibits in Dept. 10)

What you can do in this project:

- Learn different breeds of animals
- Identify feed nutrients
- Create health records for your animal
- Describe animal life stages and systems

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/large-animals/veterinary-science-project/>



## **ARTS & COMMUNICATION**

(Includes Visual Arts, Performing Arts, and Communication Arts)

<https://4h.extension.wisc.edu/opportunities/projects/arts-communication/>

### **COMMUNICATIONS** (Exhibits in Dept. 18)

What you can do in this project:

- Non-verbal, verbal, and written activities
- Strengthen personal communication skills
- Encrypt codes, write songs and give directions
- Present reasons, plan and present speeches

Grades: 3-13

## **COMPUTER GRAPHIC DESIGN**

### **CREATIVE WRITING** (Exhibits in Dept. 18)

What you can do in this project:

- Explore language and creative expression
- Stimulate your creativity and self-expression
- Enrich your joy of book reading

Grades: 3-13

### **DEMONSTRATIONS** (Exhibits in Dept. 18)

What you can do in this project:

- Hone your public speaking skills and confidence
- Learn the proper parts of a demonstration speech
- Share your knowledge & passion with an audience

Grades: 3-13

## **SIGN LANGUAGE** (Exhibits in Dept. 18)

### **SPEAKING** (Exhibits in Dept. 18)

What you can do in this project:

- Plan, practice and present an effective speech
- Gain confidence in public speaking
- Plan, practice and present an effective demonstration

Grades: 3-13

### **CLOWNING** (Exhibits in Dept. 18)

### **DANCE** (Exhibits in Dept. 18)

### **JUGGLING** (Exhibits in Dept. 18)

### **MUSIC** (Exhibits in Dept. 18)

What you can do in this project:

- Gain a greater appreciation for music
- Explore different ways to participate
- Listen, perform and compose various types of music
- Teach others and make instruments

Grades: 3-13

### **PUPPETRY** (Exhibits in Dept. 18)

### **THEATRE ARTS** (Exhibits in Dept. 18)

What you can do in this project:

- Study acting, sound, movement, voice and speech
- Learn different ways to play a scene

Study costumes, makeup, stage sets, props and sounds

### **ART** (Exhibits in Dept. 18)

What you can do in this project

- Explore sculpting and constructing with fibers
- Paint and print using different materials
- Explore art techniques, culture and history of art
- Learn artistic challenges in drawing, fiber arts and sculpting

Grades: 3-13

### **BASKETRY**

### **BEADWORK**

### **BLOCK PRINTING**

### **CALLIGRAPHY**

### **CANDLE MAKING**

### **CERAMICS**

### **COLLAGES**

### **CREATIVE/CROSS STITCHERY**

### **DECORATIVE BOXES**

### **DECORATIVE WREATHS**

## **DECOUPAGE**

### **DRAWING & PAINTING** (Exhibits in Dept. 18)

What you can do in this project:

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

Grades: 3-13

### **FIBER ARTS**

### **FLOWER CRAFTS**

### **FOLK ARTS**

### **GLASSWORK**

### **HANDMADE DOLLS**

### **JEWELRY MAKING**

### **LEATHERCRAFT**

### **LIQUID EMBROIDERY**

### **MACRAMÉ**

### **MOSAICS**

### **ORNAMENTS**

### **METAL ENAMELING**

### **NEEDLEPOINT**

### **PAPER ART**

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

What you can do in this project:

- Explore the camera and learn to use it properly
- Learn the basics of lighting and composition
- Learn about film speed, shutter speed and aperture
- Shoot photos that tell a story

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/arts-communication/photography-project/>

### **PLASTERCRAFT**

### **POSTERS**

### **FUZZY POSTERS**

### **POTTERY**

### **PRIMITIVE ART**

### **PRINT MAKING**

### **ROCK ART**

### **RUBBER STAMPING**

### **RUG HOOKING**

### **SCRAPBOOKING**

### **SCULPTY CLAY**

### **SOAP CARVING**

### **SOAP MAKING**

### **STENCIL PAINTING**

### **STRING/WIRE ART**

### **STUFFED ANIMALS**

### **TIE DYING**

### **VIDEOGRAPHY** (Exhibits in Dept. 20)

What you can do in this project:

- Learn storytelling, editing and lighting
- Experiment with camera handling and editing
- Learn to plan a project with the use of sound and titles
- Show and review your production

Grades: 3-13

### **WEAVING**

### **WEARABLE ART**

### **WOOD ART**

### **WOOD BURNING**



## **FAMILY, HOME & HEALTH**

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

### **HOME ENVIRONMENT** (Exhibits in Dept. 28)

What you can do in this project:

- Learn about home care
- Make small home decorative items for the home
- Explore the world of home interior design
- Learn about purchasing furnishings for the home

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/arts-communication/interior-design-project/>

### **FUN & FITNESS**

### **HEALTH** (Exhibits in Dept. 34)

What you can do in this project:

- Practice first-aid skills to treat basic injuries
- Explore hygiene, nutrition and physical activities
- Assemble a first-aid kit
- Interview individuals in the health and fitness fields

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/family-home-health/gardening-and-horticulture-project/>

### **INTERGENERATIONAL PROGRAMS** (Dept. 29)

What you can do in this project:

- Learn to understand older people better
- Let them share their stories and experiences
- Explore what happens as you grow older

Grades: 3-13





## CONSUMER EDUCATION

### CONSUMER SAVVY (Exhibits in Dept. 26)

What you can do in this project:

- Learn your shopping style, spending values
- Know the difference between wants, needs
- Write a savings and spending plan
- Understand advertising appeal and its affects
- Understand your consumer rights

Grades: 3-13

### ENTREPRENEURSHIP (Exhibits in Dept. 33)

What you can do in this project:

- Practice the skills needed to be an entrepreneur
- Explore businesses, products, marketing and pricing
- Create a business plan and start your own business

Grades: 3-13

### PERSONAL FINANCE (Exhibits in Dept. 33)

What you can do in this project:

- Learn money management skills
- Learn how to live on a budget
- Learn the benefits and drawbacks of credit
- Survey and select financial services

Grades: 6-8

### WORKFORCE READINESS (Exhibits in Dept. 33)

What you can do in this project:

- Explore what it takes to get your first job
- Discover how to assess job possibilities in the community
- Create job scenarios
- Recognize your learning styles and personal qualities

Grades: 3-13

- Learn what is good to eat and how to fix simple foods
- Understand TV commercial messages about food
- Discover how to store fruit and vegetables
- Learn to divide recipes and make substitutions

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/project/s/family-home-health/food-and-nutrition-project/>



## CLOTHING AND TEXTILES

### CLOTHING (Exhibits in Dept. 26)

What you can do in this project:

- Identify sewing tools and machine parts
- Thread a sewing machine and identify fabrics
- Use pressing tools and thread a serger
- Sort clothes for laundry and remove stains

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/project/s/arts-communication/fabric-and-fashion-project/>

### CROCHETING (Exhibits in Dept. 27)

<https://4h.extension.wisc.edu/opportunities/projects/arts-communication/crocheting-project/>

### KNITTING (Exhibits in Dept. 27)

What you can do in this project:

- Discover what to consider when buying yarn or tools
- Learn knitting and finishing techniques
- Correct knitting errors
- Learn how to care for your knitted items

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/project/s/arts-communication/knitting-project/>

### QUILTING (Exhibits in Dept. 28)

<https://4h.extension.wisc.edu/opportunities/projects/arts-communication/quilting-project/>

### WOOL SPINNING

## MECHANICAL SCIENCES



### AUTOMOTIVE

### BICYCLES (Exhibits in Dept. 24)

What you can do in this project:

- Learn the essentials for getting started safely
- Explore the basics toward lifelong cycling
- Learn safety, road rules and planning for a pleasant ride

Grades: 3-13



## FOODS AND NUTRITION

### BREADS (Exhibits in Dept. 25)

### CAKE DECORATING (Exhibits in Dept. 25)

<https://4h.extension.wisc.edu/opportunities/projects/arts-communication/cake-decorating-project/>

### CANDY MAKING (Exhibits in Dept. 25)

### FOOD PRESERVATION (Exhibits in Dept. 25)

What you can do in this project:

- Learn the basics of preserving food safely

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/family-home-health/food-preservation-project/>

### FOODS & NUTRITION (Exhibits in Dept. 25)

What you can do in this project:

## **COMPUTERS** (Exhibits in Dept. 21)

What you can do in this project:

- Learn about hardware, software, connections
- Explore how computers work and build
- Learn the various programs and their features
- Learn to upgrade and create connections
- Explore security issues and troubleshooting

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/stem/computers-project/>

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

What you can do in this project:

- Understand how to use electricity
- Identify electrical materials
- Wire a simple circuit
- Build a compass, flashlight, switch and electric motor
- Learn how to solder and prepare parts for assembly

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/stem/electricity-project/>

## **FLYING**

## **HANDYMAN**

## **LEGOS**

## **MAINTENANCE & REPAIR**

## **MECHANICAL SCIENCES**

## **MODEL CARS**

## **MODEL RAILROAD**

## **MODEL ROCKETRY**

## **OFF-HIGHWAY VEHICLES**

## **RADIO-CONTROLLED PLANE**

## **REMOTE-CONTROLLED CARS**

## **SCALE MODELS**

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

What you can do in this project:

- Learn the basics of small engines
- Explore external engine parts and tools
- Identify the uses of small engines and safety
- Explore different jobs related to small engines
- Tear down and rebuild an engine

Grades: 3-13

## **SNOWMOBILING** (Exhibits in Dept. 24)

## **TRACTORS** (Exhibits in Dept. 24)

What you can do in this project:

- Learn and identify parts of the tractor
- Understand the basics of tractor maintenance
- Learn about different fuels and engine cooling systems
- Research different safety features rules

Grades 3-13

## **WELDING** (Exhibits in Dept. 24)

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

What you can do in this project:

- Learn safety practices when working with wood and various tools
- Use various hand tools, saws and sanders
- Select a project to build, e.g., birdhouse or foot stool

Grades: 3-13



## **NATURAL RESOURCES & ENVIRONMENTAL EDUCATION**

## **ADVENTURES**

## **AQUATIC SCIENCE**

## **ASTRONOMY**

## **BACKPACKING & HIKING** (Exhibits in Dept. 16)

What you can do in this project:

- Plan a day hike, select items and plan the food
- Practice "Leave No Trace" principles while hiking
- Design a non-tent backpacking shelter
- Study various organism habitats

Grades: 3-13

## **BEEES**

## **BICYCLING – ENVIRON ED**

## **BIRDS**

## **CAMPING**

## **CANOEING**

## **CONSERVATION**

## **CROSS COUNTRY SKIING**

## **DOWNHILL SKIING**

## **ENTOMOLOGY (INSECTS)** (Exhibits in Dept. 16)

What you can do in this project:

- Learn about insects, their behavior
- Discover the parts of an insect's body
- Create an insect display
- Raise and study mealworms and mosquitoes

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/outdoor-education/entomology-project/>

## **EXPLORING YOUR ENVIRONMENT**

What you can do in this project:

- Use your senses to explore the environment
- Connect to the environment through plants and animals
- Learn how the environment is affected by pollution
- Explore the world of biotechnology
- Begin to understand biodiversity

Grades 3-13



## **FISHING** (Exhibits in Dept. 16)

What you can do in this project:

- Identify types of tackle and organize a box
- Identify different types of fish in your area, bait, reels, and knots
- Learn to take proper care of your catch
- Learn to reassemble a fishing reel

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/outdoor-education/sport-fishing-project/>

## **FORESTRY** (Exhibits in Dept. 16)

What you can do in this project:

- Identify forest types, forest products and trees
- Age trees by counting rings
- Understand forest competition
- Learn how trees move water from soil to canopy
- Find a state forest

Grades 3-13

## **GEOLOGY**

<https://4h.extension.wisc.edu/opportunities/projects/outdoor-education/sport-fishing-project/>

## **HOME ENERGY**

## **MAPLE SYRUP**

## **RECYCLING**

## **REPTILES**

## **ROCK CLIMBING**

## **SCIENCE DISCOVERY**

## **TAXIDERMY**

## **WATER** (Exhibits in Dept. 16)

What you can do in this project:

- Identify water conservation and pollution issues
- Explore issues in your home, community or school
- Select an issue to focus on
- Develop and implement a plan

Grades: 3-13

## **WEATHER**

## **WILDFLOWERS**

## **WILDLIFE**

## **WILDLIFE HABITAT**

## **WINTER TRAVEL**



## **SHOOTING SPORTS EDUCATION**

(All projects exhibit in Dept. 16)

<https://4h.extension.wisc.edu/opportunities/projects/shooting-sports/>

## **AIR PISTOL**

What you can do in this project:

- Explore different air pistols

- Learn basic safety rules and guidelines
- Learn marksmanship and shooting procedures

Grades: 3-12

## **AIR RIFLE**

What you can do in this project:

- Explore different types of air rifles
- Learn basic safety rules and range commands
- Develop marksmanship
- Learn various shooting positions used in competition

Grades: 3-12

## **ARCHERY**

What you can do in this project:

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

Grades: 3-12

## **HUNTING**

What you can do in this project:

- Learn the history, philosophy, and laws of hunting
- Learn to plan and equip yourself for a hunt

Grades: 3-12

<https://4h.extension.wisc.edu/opportunities/projects/outdoor-education/wildlife-and-hunting-project/>

## **MUZZLELOADING**

What you can do in this project:

- Explore muzzleloading history
- Study different muzzleloading guns and accessories
- Learn how to clean a muzzleloader
- Learn safety issues

Ages: Only 12 years old and above can shoot powder burning guns

## **PISTOL (smallbore .22)**

What you can do in this project:

- Explore the history of different types of pistols
- Learn basic safety rules and range commands
- Develop marksmanship and shooting procedures

Ages: Only 12 years old and above can shoot powder burning guns

## **RIFLE**

What you can do in this project:

- Explore rifle history and the different models
- Learn to sight-in your rifle and score targets
- Learn various shooting positions used in competition
- Learn safe handling procedures and range rules

Ages: Only 12 years old and above can shoot powder burning guns

## SHOTGUN

What you can do in this project:

- Learn the basic safety issues with shotgun handling
- Learn shooting fundamentals
- Learn the proper way to carry a shotgun

Ages: Only 12 years old and above can shoot powder burning guns

- Produce fruits from apples to berries
- Select the best fruit cultivar for your home garden
- Produce fruits such as pears and grapes
- Learn about different varieties of cultivars

Grades: 3-12

## HERBS

## HOME GROUNDS (Exhibits in Dept. 15)

What you can do in this project:

- Learn about seeding a lawn
- Study proper lawn care and maintenance
- Explore fertilization and pest management techniques
- Explore variety selection and appropriate placement

Grades: 3-13

## HORTICULTURE

<https://4h.extension.wisc.edu/opportunities/projects/family-home-health/gardening-and-horticulture-project/>

## HOUSE PLANTS (Exhibits in Dept. 15)

What you can do in this project:

- Identify plant parts and their functions
- Grow house plants and start a plant from a cutting
- Make a dish garden, terrarium
- Prepare house plants for exhibit
- Learn how to make dried arrangements, corsages, etc.

Grades: 3-13

## PLANT CRAFTS

## SOIL SCIENCE

## VEGETABLES (Exhibits in Dept. 14)

What you can do in this project:

- Identify plant parts and their functions
- Explore germination and start a plant from a cutting
- Grow vegetables in containers
- Learn about plant needs and soil testing
- Prepare a vegetable exhibit for show

Grades: 3-13



## PLANT & SOIL SCIENCES

### CORN (Exhibits in Dept. 14)

What you can do in this project:

- Learn about variety selection, germination and planting
- Learn about nutrients, harvesting and storage
- Explore uses and marketing strategies for corn

Grades: 3-13

### FORAGE (Exhibits in Dept. 14)

What you can do in this project:

- Establish and manage a forage crop
- Scout fields for pests, diseases and nutrition shortages
- Take an accurate forage sample
- Study growing techniques

Grades: 3-13

### SMALL GRAINS (Exhibits in Dept. 14)

What you can do in this project:

- Explore types of grasses, including wheat, oats and barley
- Learn about growing conditions and nutrients
- Practice integrated pest management
- Compare production costs and marketing

Grades: 3-13

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

### SOYBEANS

### WEED MANAGEMENT

### FLOWERS (Exhibits in Dept. 15)

What you can do in this project:

- Identify flower parts and their functions
- Plant flowers and make flower arrangements
- Make a landscape plan
- Prepare and judge a flower exhibit

Grades: 3-13

### FRUITS (Exhibits in Dept. 14)

What you can do in this project:



## STEM (Science, Technology, Engineering & Math)

### AEROSPACE (Exhibits in Dept. 24)

What you can do in this project:

- Build an introductory level rocket
- Compare birds and airplanes
- Discover how weather affects flying
- Demonstrate why rockets fly

Grades: 9-12

<https://4h.extension.wisc.edu/opportunities/projects/stem/aerospace-project/>

## **GEOSPATIAL GEOCACHING** (Exhibits in Dept. 24)

### **ROBOTICS** (Exhibits in Dept.24)

What you can do in this project:

- Build robots from everyday items
- Explore and learn about robots that move with legs, wheels and underwater.
- Learn about basic electrical power and motors, and gear system
- Study basic elements of programming and instruction

Grades: 3-13

<https://4h.extension.wisc.edu/opportunities/projects/stem/robotics-project/>

## **SCIENCE WIND ENERGY**



## **OTHER PROGRAMS**

### **SAFETY** (Exhibits in Dept. 16)

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## **INTERNATIONAL PROGRAMS**

<https://wi4hinternational.org/>

### **INTERNATIONAL** (Exhibits in Dept. 33)

What you can do in this project:

- Explore the world around you through maps
- Make your family tree by talking with relatives
- Explore culture, fear, and identity
- Connect with global citizenship

Grades: 3-13