

Dodge County 4-H



2023-2024 Enrollment & Project Guide



Extension
UNIVERSITY OF WISCONSIN-MADISON



Division of Extension, Dodge County
Dodge County Administration Building
127 E. Oak Street
Juneau, WI 53039
920-386-3790
<https://dodge.extension.wisc.edu>

TABLE OF CONTENTS

Letter to 4-H Families	3
Enrollment Key Dates	4
Who Can Join 4-H?	5-6
Youth Leadership	7
Ambassadors, Youth Leadership	
Younger Members	7
Cloverbuds, Exploring	
Service Learning & Citizenship	7
Citizenship, Service Learning, Special Emphasis	
Self-Determined	7
Animal Sciences	8-11
Beef, Cage Birds, Cats, Cavies, Dairy, Dogs, Dog Obedience Training, Exotic Animals, Goats, Horses, Horseless Horse, Llamas, Pets, Poultry, Rabbits, Rabbit Market, Rabbit Hopping, Sheep, Small Animals, Swine, Tropical Fish, Veterinary Science	
Communication & Cultural Arts	11-14
Arts, Basketry, Beadwork, Block Printing, Cake Decorating, Calligraphy, Candlemaking, Ceramics, Clowning, Collages, Communications, Computer Graphic Design, Creative/Cross Stitchery, Creative Writing, Dance, Decorative Boxes/Wreaths, Decoupage, Demonstrations, Drawing & Painting, Fiber Arts, Flowercrafts, Folk Arts, Glassworks, Handmade Dolls, Jewelry Making, Juggling, Latino Cultural Arts, Leathercraft, Liquid Embroidery, Macrame, Metal Enameling, Mosaics, Music, Needlepoint, Ornaments, Paper Art, Photography, Plastercraft, Posters, Fuzzy Posters, Pottery, Printmaking, Puppetry, Rock Art, Rubber Stamping, Rug Hooking, Scrapbooking, Sculpty Clay, Sign Language, Soap Carving, Soap Making, Speaking, Stencil Painting, String/Wire Art, Theatre Arts, Tie Dying, Videography, Weaving, Wearable Art, Wood Art, Wood Burning	
Family, Home, & Health	14-16
Bowling, Breads, Candymaking, Child Development, Clothing, Consumer Savvy, Crocheting, Entrepreneurship, Foods & Nutrition, Food Preservation, Fun & Fitness, Health, Home Environment, Intergenerational Programs, Knitting, Microwave, Personal Finance, Quilting, Safety, Softball, Sports, Wool Spinning, Workforce Readiness	
Mechanical Science	16-18
Aerospace, Automotive, Bicycling, Blacksmithing, Computers, Electricity, Flying, Geocaching, Geospatial, Handyman, Legos, Maintenance & Repair, Mechanical Sciences, Model Cars, Model Railroad, Model Rocketry, Off-Highway Vehicles, Radio-Controlled Plane, Remote-Controlled Cars, Robotics, Scale Models, Small Engines, Snowmobiling, STEM, STEM Exploring, Tractor Certification, Tractors, Welding, Woodworking	
Natural Resources, Shooting Sports, & Environmental Education	18-21
Adventures, Aquatic Science, Archery, Astronomy, Backpacking & Hiking, Bees, Bicycling, Birds, Camping, Canoeing, Conservation, Cross Country Skiing, Downhill Skiing, Entomology, Exploring Your Environment, Fishing, Forestry, Geology, Hunting, Maple Syrup, Muzzleloading, Pistol, Recycling, Reptiles, Rock Climbing, Rock Hound, Science, Science Discovery, Rifle, Taxidermy, Water, Weather, Wildlife, Wildlife Habitat, Wind Energy, Winter Travel	
Plant & Soil Science	21-22
Crops (Corn, Forage, Small Grains, Soybeans, Weed Management), Flowercrafts, Flowers, Fruits, Herbs, Home Grounds, Horticulture, House Plants, Plant Crafts, Soil Science, Vegetables	
International Programs	22



Extension
UNIVERSITY OF WISCONSIN-MADISON



Dear 4-H Families,

Welcome to 4-H Youth Development, the largest youth organization in Wisconsin! You are among the over 32,300 youth reached in over 1,300 organized Wisconsin 4-H community clubs. You will be in good company as you grow in life skills throughout 4-H this year. Another 195,000 Wisconsin youth get involved in 4-H through special educational opportunities at school, in after school programs, or at neighborhood or youth centers. You may also be one of over 16,700 adult volunteers or 5,200 youth volunteers throughout the state who serve the 4-H program.

Regardless of how you participate in 4-H, it is open to anyone regardless of race, color, creed, sex, national origin, disability, or place of residence. Creating an inclusive environment is part of belonging, one of the essential elements of 4-H Youth Development. The others are mastery, independence, and generosity.

Part of University of Wisconsin – Madison, Division of Extension, 4-H is a program where youth learn together in all kinds of projects, events, and activities. In 4-H, you choose the projects that fit your personal interests. A 4-H project is an area that you want to learn more about during the year. In most projects, you receive materials to help you. An adult leader is usually available to help with project work. This guide lists projects that are available to you.

Besides projects, you can get involved in events and activities year round. Some of the more popular activities include foods and clothing revue, animal clinics/workshops, communication and arts festival, camps, county and state fair, community service, field trips, recreation, speeches, and demonstrations.

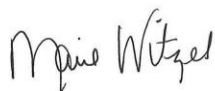
Parents are an important part of 4-H. Parents help you choose your projects, provide support and transportation, and encourage you to do your best. Many parents share time, skills, interests, and resources with the entire 4-H club by becoming project or club leaders. Best of all, 4-H is “hands-on” learning-by-doing action; the kind of learning both youth and adults can really tune into. May your family enjoy a rewarding 4-H year! You can start learning the 4-H pledge together:

"I pledge my **HEAD** to clearer thinking,
my **HEART** to greater loyalty,
my **HANDS** to larger service,
my **HEALTH** to better living for my CLUB,
my COMMUNITY, my COUNTRY, and my WORLD."

Take a look through the **Enrollment & Project Guide**. Select the projects that interest you and your family. Good luck in project selection and have a great year learning through 4-H!

If you have questions, please contact the Division of Extension – Dodge County office at 920-386-3790. You can also check out Dodge County 4-H at our website <https://dodge.extension.wisc.edu> or on the state website: <https://4h.extension.wisc.edu/>

Best wishes for a rewarding year in 4-H!



Marie Witzel
Positive Youth Development Educator



Ellen Bohn
4-H Program Assistant

The University of Wisconsin–Madison does not discriminate in its employment practices and programs and activities on a variety of bases including but not limited to: age, color, disability, national origin, race, or sex. For information on all covered bases, the names of the Title IX and Americans with Disabilities Act Coordinators, and the processes for how to file a complaint alleging discrimination, please contact the [Office of Compliance](#), 361 Bascom Hall, 500 Lincoln Drive, Madison WI 53706, Voice 608-265-6018, (relay calls accepted); Email: uwcomplianceoffice@wisc.edu.

IMPOTANT ENROLLMENT DATES

- **SEPTEMBER 15, 2023:** Enrollment Opens on 4HOnline for Dodge County 4-H.
- **NOVEMBER 15, 2023:** Preferred deadline for re-enrolling members to enroll using [4HOnline](#).

REMEMBER:

Projects cannot be added or changed after December 31st!



Extension
UNIVERSITY OF WISCONSIN-MADISON



WHO CAN JOIN 4-H?

MEMBERSHIP

The 4-H grade is determined as of October 1, 2023.

5-year kindergarten through 2nd grade (as of 10/01/2023) can enroll in Dodge County 4-H as Cloverbuds.

3rd graders enroll as Exploring members and must take the **Exploring project**. Exploring members can add 1 additional project (optional). *NOTE: 3rd graders/Exploring members who take Beef as a project **must ONLY EXHIBIT in Beef Feeder classes at the Dodge County Junior Fair**.

Starting at 4th grade, members can select from a variety of projects.

Youth continue to be eligible for membership (1) year beyond high school graduation (grade 13).

Member graduation option: Graduate from 4-H *following high school graduation* **OR** one year *after* high school graduation.

The Wisconsin 4-H Membership Year is October 1 – September 30.

4-H has open membership enrollment. Youth may enroll as members at any time of the year. Counties may establish enrollment and re-enrollment deadlines for participation in specific programs/projects when those deadlines are needed to ensure educational integrity and/or safety.

4-H membership is open to all youth beginning in 5K (five-year-old Kindergarten) through one year beyond high school graduation and not to extend beyond the age of 19 as of December 31 of the enrollment year. Examples:

- **Question:** Emma is a high school senior and will turn 20 in April. Can she re-enroll in 4-H next fall? **Answer:** No, she will be 20 years old on December 31 of the enrollment year. Though Emma meets the grade criterion, she does not meet the age criterion for re-enrolling.
- **Question:** Sophia graduates from high school at age 17. She goes on to college and turns 18 on December 31. Can she enroll in 4-H the enrollment year following her graduation from high school? **Answer:** Yes. Sophia is able to join one year following high school. This will be her last year she is eligible to be in 4-H. She will not be able to enroll next year when she is 19. She will not meet the grade criterion.
- **Question:** Noah graduated from high school this year. His 20th birthday is January 15. Can he enroll in 4-H in the fall following his high school graduation? **Answer:** Yes. Noah meets both the age and grade criteria.

4-H Members must annually sign the [Wisconsin 4-H Code of Conduct](#). Consequences for violating any part of this Code of Conduct may include, but are not limited to:

- Removal from leadership positions held.
- Removal from participation in the event in which the Code of Conduct has been violated (at the individual's expense).
- Forfeiture or repayment of financial support for the event.
- Sanctions on participation in future 4-H events.
- Suspension of membership.
- Dismissal from 4-H.

A "member in good standing" is a 4-H member who abides by the Code of Conduct and meets group or educational project participation requirements and deadlines. For additional information on Wisconsin 4-H policies visit <https://4h.extension.wisc.edu/resources/wisconsin-4-h-policies/>

DEADLINES

Enrollment is made through local 4-H Clubs using [4HOnline](#). The preferred deadline to enroll online for re-enrolling members is November 15, 2023. Re-enrolling members must turn in any fees to the GENERAL LEADER by the designated club deadline.

New Members (including new Cloverbuds and Explorers) complete the online enrollment and submit fees to their local General Leader as soon as they have decided to become members of a club. **Once enrollment is completed, projects CANNOT be added or changed!**



ENROLLMENT

County 4-H enrollment registration is \$8.00 per member (including Cloverbuds & Exploring Members) and is paid to the local member club. **Local club enrollment fees** are determined by the individual club.



DODGE COUNTY 4-H CLOVERBUDS

- Cloverbuds are members in grades 5-year kindergarten through 2nd grade as of October 1, 2023.
- Enrollment is made through local 4-H Clubs and 4HOnline.
- Cloverbuds may ONLY ENROLL in the Cloverbud project.
- Enrollments are due by November 15, 2023 for re-enrolling Cloverbuds.
- Traditional record books will not be used. Cloverbuds have a special Cloverbud Record Book.
- Cloverbuds will be able to participate in county 4-H activities.
- Cloverbuds pay the \$8.00 county enrollment registration. Local clubs may have an additional Enrollment fee.

DODGE COUNTY 4-H EXPLORING MEMBERS

- Exploring members are members who are in 3rd grade as of October 1, 2023.
- Enrollment is made through local 4-H Clubs and 4HOnline.
- Exploring members must enroll in the "EXPLORING" project. Members can add 1 additional project (optional).
**NOTE: Exploring members who take Beef as a project must ONLY EXHIBIT in Beef Feeder classes at the Dodge County Junior Fair.*
- Enrollments are due by November 15, 2023 for re-enrolling members.
- Explorers will be able to participate in county 4-H activities.
- Explorers pay the \$8.00 county enrollment fee. Local clubs may have an additional enrollment fee.



VOLUNTEER LEADERS

Volunteers help make 4-H possible. To volunteer, previous 4-H Youth Development experience is not necessary. The most important qualifications are: a desire to work with young people to help them learn new things and gain life skills; and providing youth positive experiences in a safe and welcoming environment. Extension volunteers work with staff to deliver educational programs extending University resources. **Volunteer leaders are required to enroll using 4HOnline EACH YEAR.** All volunteer leaders are automatically members of the Dodge County 4-H Leaders Association. Volunteer types include:

- **Club Leader** provide leadership to the club or group organization
- **Project Leader** Provide leadership and organization to the project group learning about a specific topic.
- **Activity/Event Volunteer** Provide leadership/organization for an activity or event and/or participate as a committee member
- **Club Enrollment Coordinator** Provide leadership for members and adult volunteers who are enrolling in the club or group organization
- **Adult Advisor/Chaperone** - work with a team of adult advisors and Positive Youth Development staff to ensure youth have a safe and positive educational experience
- **Committee Volunteer** Provide leadership for a committee and/or participate as a member of a committee; create educational experiences for all youth engaged in the program

Required Training: All adult volunteers 18 and older are required to complete the Wisconsin 4-H Volunteer in Training program, which includes:

- 1) a background check for arrest and conviction records
- 2) participation in the *Volunteers in Preparation* Training (remote or in-person as offered)
- 3) annually signing the Extension Volunteer Behavior Expectations (done through 4HOnline)
- 4) completing the Mandated Reporter Training (done through 4HOnline)

HOW TO SELECT PROJECTS

Make a list of things you like to do or want to learn. Compare the list to the projects described in this guide. Descriptions after each project are not the project requirements. What you decide to take as part of your project work is up to you. If this is your first year in 4-H, choose one or two projects to concentrate on.

NOTE:

- Not all projects have project leaders in the club or county.
- FIRST ask your General Leader project questions!
- Contact the indicated *Resource Leader* for specific project questions.



YOUTH LEADERSHIP

YOUTH LEADERSHIP

What you can do in this project:

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

Resource: 07905, *My Leadership Workbook for Grades 3-5*

- Explore how leaders are different
- Develop a multi-media presentation
- Set and achieve team goals
- Practice teamwork

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

- Build trust in a group
- Assess your own strengths and weaknesses
- Write vision and mission statements
- Contribute to a group project

Resource: 07907, *My Leadership Portfolio for Grades 9-12*

YOUTH LEADERSHIP LDR

Resources: 07903, *Leadership Mentor Guide for Grades K-5*
07904, *Leadership Mentor Guide for Grades 6-12*

YOUTH LEADERSHIP YTH LDR



YOUNGER MEMBERS

CLOVERBUDS

What you can do in this project:

- Learn about 4-H activities and events
- Learn about working together as a club or team
- Share with others what you have learned

Grades: 5-year Kindergarten, 1, 2

Resources: *Cloverbuds – Activity Booklet*
Cloverbuds – Program Record Book Guide

CLOVERBUD LDR

Resources: 4H414, *Helping Youth Grow into 4-H*
05560, *4-H Discovery Program for 6-8 Yr. Olds*

CLOVERBUDS YTH LDR

EXPLORING

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

Grade: 3

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

EXPLORING LDR

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

EXPLORING YTH LDR



SERVICE LEARNING & CITIZENSHIP

CITIZENSHIP

What you can do in this project:

- Discover and discuss public issues
- Plan a project that will create, change or improve your community

Resource: 08153, *Citizenship Adventures Kit*

CITIZENSHIP LDR

Resource: 08154, *Citizenship Guide's Handbook*

CITIZENSHIP YTH LDR

HISTORY & HERITAGE

SERVICE LEARNING

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
- Plan and implement your own service project
- Share with others your project plan and outcome
- Conduct an evaluation of your project

SERVICE LEARNING LDR

Resource: 08184, *Service Learning Helper's Guide*

SERVICE LEARNING YTH LDR

SPECIAL EMPHASIS Member

SPECIAL EMPHASIS LDR

SPECIAL EMPHASIS YTH LDR



SELF-DETERMINED

SELF-DETERMINED

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

Resource: 4H272, *Designing Your Own Project*

SELF-DETERMINED LDR

SELF-DETERMINED YTH LDR



ANIMAL SCIENCES

BEEF

What you can do in this project:

- Identify various beef breeds
- Identify parts of a beef animal
- Judge beef cattle
- Halter-break a calf, fit a steer, show a calf
- Recognize and raise a healthy animal

Resources: 08143, *Bite Into Beef*
 4H450, *Judging Breeding & Market Cattle*
 MA, *Meat Animal Project Record*

- Present oral reasons during judging
- Learn about feed ingredients, behavior, and parasites
- Study how to do nose-print identification
- Learn beef carcass composition and retail meat cuts

Resources: 08144, *Here's the Beef*

- Explore selection and judging
- Learn about careers, health, reproduction, etc.
- Discover how to market your animal and by-products

Resources: 08145, *Leading the Charge*

BEEF LDR

Resources: 08146, *Beef Helper's Guide*
 117R, *Beef Resource Handbook*

BEEF YTH LDR

CAGE BIRDS Members

Breeding management, feeding & care of cage birds.

Resource: NCR-42 *Cage Birds in the Home*

CAGE BIRDS LDR

CAGE BIRDS YTH LDR

CATS

What you can do in this project:

- Select a cat
- Identify cat breeds
- Name the parts of a cat
- Handle and groom a cat
- Care for its health
- Create a budget

Resource: 08148, *Purr-fect Pals*

- Learn about cat senses and sounds
- Explore tricks to teach a cat
- Traveling with a cat
- Learn about feeding and emergency care
- Detect signs of illness and health issues

Resource: 08149, *Climbing Up!*

- Explore veterinary procedures
- Learn reproduction and cat body systems
- Learn showmanship and cat behavior
- Explore community laws and animal welfare

Resource: 08150, *Leaping Forward*

CATS LDR

Resource: 08151, *Cat Helper's Guide*

CATS YTH LDR

CAVIES (Guinea Pigs)

CAVIES (Guinea Pigs)

Breeds, breeding & management, feeding & care of young, proper equipment, showing.

CAVIES LDR

CAVIES YTH LDR

DAIRY

What you can do in this project:

- Identify dairy breeds
- Study and identify parts of the dairy cow
- Learn how to select quality dairy calves
- Fit and show a calf
- Identify stages of calving and care
- Assemble tools needed for packing a show box

Resources: 08161, *Cowabunga*
 CANADA1, *Showmanship...Leading to Win*
 CANADA2, *Preparing to Lead*
 LDR, *Lifetime Dairy Record*

- Learn about housing and hay quality
- Learn about milking and food safety
- Explore ways to keep an animal healthy
- Observe animal behavior

Resources: 08162, *Mooving Ahead*
 4H502, *The Rules are Black and White*
 MPA, *Managerial Project Agreement:*

- Practice mastitis detections
- Learn to balance rations
- Practice pregnancy detection and delivery of a calf
- Learn body-conditioning scoring
- Promote dairy products
- Explore various dairy industry careers

Resources: 08163, *Rising to the Top*
 HMR, *WI 4-H Dairy Heifer Mgmt. Record*

DAIRY LDR

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

DAIRY YTH LDR

DOGS

What you can do in this project:

- Learn basic skills for dog care and training
- Discover different dog breeds
- Study and identify dog body parts
- Learn how to keep a dog healthy and groomed

Resources: 08166, *Wiggles and Wags*
 4H436, *The Basics of Training Your Dog*

- Explore dog health and nutrition
- Discover genetic problems and population control
- Learn showmanship and training techniques
- Learn about show-ring ethics

Resources: 08167, *Canine Connection*
 4H439, *Dog Obedience – Novice & Beyond*

- Investigate responsible breeding
- Care for geriatric dogs
- Train service dogs
- Explore careers related to dogs

Resources: 08168, *Leading the Pack*
 4H437 *A Guide to Showmanship*

DOGS LDR

Resources: 08169 *Dog Helper's Guide*
Dodge Co. Dog Project Handbook
4H458, *4-H Dog Judging Guidelines*

DOGS YTH LDR

DOG OBEDIENCE TRAINING

DAIRY GOAT

What you can do in this project:

- Gain hands-on experiences in the goat project
- Select, manage, fit, and show goats
- Learn responsible goat ownership

Resource: 08352, *Getting Your Goat*

- Learn to keep your goat healthy
- Feed your goat for maximum production
- Prepare for kidding
- Develop judging skills
- Learn how to milk a goat properly

Resource: 08353, *Stepping Out*

- Learn about genetics, diseases and breeding
- Study body-condition scoring and linear appraisal
- Understand bio-security and prevention measures
- Gain leadership and explore career opportunities

Resource: 08354, *Showing the Way*

DAIRY GOAT LDR

Resource: 08355, *Dairy Goat Helper's Guide*

DAIRY GOAT YTH LDR

EXOTIC ANIMALS

MEAT GOAT

What you can do in this project:

- Identify meat goat breeds and parts
- Learn to select a good animal
- Feed and care for a meat goat
- Develop a budget for a meat goat project

Resource: 07909, *Just Browsing*

- Recognize meat goat diseases
- Select a veterinarian and purchase breeding stock
- Understand reproduction cycle and keep records
- Fit and show meat goats

Resource: 07910, *Get Growing with Meat Goats*

- Learn to control diseases
- Understand bio-security and quality assurance
- Formulate rations
- Evaluate goat pastures

Resource: 07911, *Meating the Future*

MEAT GOAT LDR

Resource: 07912, *Meat Goat Helper's Guide*

MEAT GOAT YTH LDR

HORSES

What you can do in this project:

- Learn horse behavior and terms
- Study breeds and identify body parts

- Saddle, groom and bridle your horse
- Practice horse safety and horse selection

Resources: 08053, *Giddy Up & Go*
CO200, *Horses & Horsemanship*
4H180, *Pleasure Riding*

- Practice horsemanship and judging
- Understand horse selection and training
- Learn about tack, feeding and diseases
- Practice showing a horse and trail riding

Resource: 08054, *Head, Heart & Hooves*

- Explore horse breeding, genetics and heredity
- Understand horse diseases and prevention
- Learn about fencing, pasturing and housing
- Explore horse-related careers

Resource: 08055, *Stable Relationships*

- Train a horse
- Practice a round-pen workout
- Learn English and Western style bridles
- Understand equitation and riding styles

Resource: 08056, *Riding the Range*

- Learn to set goals
- Compare costs of show clothing
- Present your horse in showmanship classes
- Rate your showmanship skills
- Practice proper show ethics

Resource: 08057, *Jumping to New Heights*

HORSE LDR

Resources: 08058, *Horse Helper's Guide*

HORSE YTH LDR

HORSELESS HORSE

What you can do in this project:

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

Resource: 08053, *Giddy Up & Go*
4H260, *Horses are Fun – Horseless Horse*

- Learn about horsemanship
- Explore judging and oral reasons
- Learn selection, training and showing
- Practice trail riding skills

Resource: 08054, *Head, Heart & Hooves*

- Explore horse breeding, genetics and heredity
- Understand horse diseases and prevention
- Learn about fencing, pasturing and housing
- Explore horse-related careers

Resource: 08055, *Stable Relationships*

HORSELESS HORSE LDR

Resources: 07200, *Horse Pattern*

HORSELESS HORSE YTH LDR

LLAMAS

Choose *PETS* only if your specific pet is not listed elsewhere!
You will be able to enter posters/displays at Fair, but may not be able to bring your pet.

PETS

What you can do in this project:

- Explore your favorite pet or select a pet
- Identify pet body parts
- Learn to provide a safe environment
- Design a space for your pet

Resource: 06359, *Pet Pals*

- Explore animal digestion and feeding
- Shop for pet supplies
- Determine the animal's sex and proper health
- Study pet behavior and communication

Resource: 06360, *Scurrying Ahead*

- Explore pet products
- Teach others about pets
- Understand how genetics work
- Explore animal welfare issues

Resource: 06361, *Scaling the Heights*

PETS LDR

Resource: 06362, *Pet Helper's Guide*

PETS YTH LDR

POULTRY

What you can do in this project:

- Identify poultry breeds
- Learn parts of the bird
- Learn parts and functions of the egg
- Learn how to select and handle poultry
- Fit and show poultry

Resources: 06363, *Scratching the Surface*

SA, *Small Animal Project Record*

- Observe a healthy flock
- Select and judge broilers
- Discover how an egg is formed
- Prevent poultry diseases
- Discover how chicks imprint

Resources: 06364, *Testing Your Wings*

4H281, *Poultry for Fun & Food*

A2880, *Chicken Breeds & Varieties*

- Organize a judging clinic
- Manage a laying flock
- Discover qualities of eggs
- Handle poultry products safely
- Process a chicken

Resources: 06365, *Flocking Together*

SA, *Small Animal Project Record*

POULTRY LDR

Resource: 06366, *Poultry Helper's Guide*

POULTRY YTH LDR

POULTRY BANTAMS

What you can do in this project:

- Discover bantam breeds and breed characteristics
- Learn how to get started raising bantams
- Select and mate bantams
- Incubate and rear their young
- Learn to feed and house birds

- Fit and show bantams

Grades: 3-12

Resources: NCR209, *Bantams*

POULTRY EXOTIC BIRDS (Ostrich, Emu) POULTRY GAME BIRDS (Quail, Pheasant) POULTRY MARKET

POULTRY PIGEONS

What you can do in this project:

- Learn about buying, banding and feeding
- Understand about proper housing and behavior
- Learn about grooming and exhibiting

Grades: 3-12

Resource: 4H135, *Pigeons*

POULTRY TURKEYS

What you can do in this project:

- Learn about buying poultry
- Prepare a brooding area
- Raise range turkeys
- Feed and water turkeys
- Identify diseases

Grades: 3-12

Resources: NCR060, *Small Turkey Flock Management*

POULTRY WATERFOWL

What you can do in this project:

- Learn about waterfowl breeds and parts
- Handle waterfowl properly
- Select and prepare waterfowl for market
- Incubate and exhibit waterfowl

Grades: 3-12

Resources: A3311, *Raising Waterfowl*

RABBITS

What you can do in this project:

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

Resource: 08080, *What's Happening?*

- Learn to select show rabbits
- Give oral reasons and judge rabbits
- Learn to tattoo and keep records of animals
- Detect diseases

Resource: 08081, *Making Tracks*

- Learn about breeding and genetics
- Design a rabbitry and marketing rabbits
- Learn about disease prevention and rabbit registration

Resource: 08082, *All Ears*

RABBITS LDR

Resource: 08083, *Rabbit Helper's Guide*

RABBITS YTH LDR

RABBITS MARKET

RABBIT HOPPING

SHEEP

What you can do in this project:

- Identify sheep breeds and body parts
- Observe sheep behavior
- Identify uses of wool and other by-products
- Fit and show sheep

Resources: 06367, *Lambs, Rams and You*
4H421, *Judging Breeding & Market Sheep*
MA, *Meat Animal Project Record*

- Learn to identify sheep parasites
- Promote meat safety
- Judge wool
- Diagnose sheep diseases
- Use medications safely
- Explore careers

Resources: 06368, *Shear Delight*

- Set sheep production goals
- Plan sheep related activities
- Market sheep products and teach others
- Plan a judging contest
- Explore careers

Resources: 06369, *Leading the Flock*

SHEEP LDR

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

SHEEP YTH LDR

SMALL ANIMALS

SWINE

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

Resources: 08065, *The Incredible Pig*
4H412, *Judging Breeding & Market Swine*
MA, *Meat Animal Project Record*

- Make a swine health care plan
- Identify diseases
- Assemble tack and pack a show box
- Plan and organize a facility expansion
- Complete a plan for a new pork product

Resources: 08066, *Putting the Oink in the Pig*

- Learn to make breeding and culling decisions
- Judge a class of breeding gilts
- Design a preventative herd health plan
- Manage a feeding program

Resources: 08067, *Going Whole Hog*
MA, *Meat Animal Project Record*

SWINE LDR

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

SWINE YTH LDR

TROPICAL FISH

VETERINARY SCIENCE 1

What you can do in this project:

- Learn different breeds of animals
- Interpret animal behavior
- Identify feed nutrients
- Describe animal life stages and systems

Resources: 08048, *From Airedales to Zebras*
4H334, *Adventure Notebook*
4H131, *The Normal Animal*

- Create health records for your animal
- Conduct food safety experiments
- Discover importance of immunity and bio-security
- Consider ethics and animal welfare

Resources: 08049, *All Systems Go*
4H048, *Animal Disease*

- Investigate the importance of genetics
- Understand diseases that spread from animals to humans
- Learn about diversity of veterinary careers

Resources: 08050, *On the Cutting Edge*
4H133, *Animal Health*

VETERINARY SCIENCE LDR

Resources: 08051, *Veterinary Science Helper's Guide*
4H192, *Veterinary Science*

VETERINARY SCIENCE YTH LDR

SELF-DETERMINED – ANIMAL SCIENCES



COMMUNICATION & CULTURAL ARTS

ART

What you can do in this project

- Learn art through cutting, pasting and drawing
- Explore sculpting and constructing with fibers
- Paint and print using different materials
- Develop graphic design techniques
- Explore art techniques, culture and history of art

Resources: 23112, *Elements and Principles of Design Card*
4H472, *Palette of Fun Member Sheet & Introduction*

Resources: 08140, *Advanced Visual Arts: Sketchbook Crossroads*

Resources: 08141, *Advanced Visual Arts: Portfolio Pathways*

ARTS LDR

Resource: 07597, *Arts & Crafts – A Palette of Fun*

ARTS YTH LDR

BASKETRY - no literature available

BASKETRY LDR

BASKETRY YTH LDR

BEADWORK

BLOCK PRINTING

CAKE DECORATING

- Learn cake decorating techniques.

CAKE DECORATING LDR

CAKE DECORATING YTH LDR

CALLIGRAPHY

CANDLEMAKING

CERAMICS LDR **CERAMICS Member** **CERAMICS YTH LDR**

CLOWNING

What you can do in this project:

- Discover the history of clowning
- Develop your own character
- Design your own makeup, costume and props

Resource: 4H265, *Enter the Clowns*

CLOWNING LDR **CLOWNING YTH LDR**

COLLAGES

COMMUNICATIONS

What you can do in this project:

- Engage in non-verbal, verbal and written activities
- Strengthen your personal communication skills
- Encrypt codes, write songs and give directions

Resource: 08156, *Picking Up the Pieces*

- Learn to become a confident communicator
- Present oral reasons, plan and present speeches
- Practice making good first impressions

Resource: 08157, *Putting It Together*

- Polish your communication skills
- Develop a public presence by speaking in public
- Explore communication careers
- Write resumes and interview for a job
- Develop presentations

Resource: 08158, *The Perfect Fit*

COMMUNICATIONS LDR

Resources: BU8159, *Communications Helper's Guide*
COMM04, *Voices From the Past*
COMM05, *It's All in the Family*
COMM07, *Communication Activities for 4-H Clubs*

COMMUNICATIONS YTH LDR

COMPUTER GRAPHIC DESIGN

CREATIVE/CROSS STITCHERY

Counted cross-stitch, embroidery & plastic canvas techniques. *No literature is available.*

CREATIVE/CROSS STITCHERY LDR **CREATIVE/CROSS STITCHERY YTH LDR**

CREATIVE WRITING

Resources: COMM01, *Creative Woodworking*
COMM03, *Crazy About Books Reading Circle*

CREATIVE WRITING LDR **CREATIVE WRITING YTH LDR**

DANCE

DECORATIVE BOXES **DECORATIVE WREATHS**

DECOUPAGE

DEMONSTRATIONS

Resource: 4H309 *Let's Demonstrate!*

DEMONSTRATIONS LDR

DEMONSTRATIONS YTH LDR

DRAWING & PAINTING

What you can do in this project:

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

Resource: 4H169, *Drawing & Painting*

DRAWING & PAINTING LDR

DRAWING & PAINTING YTH LDR

FIBER ARTS

FLOWERCRAFTS

FOLK ARTS

What you can do in this project:

- Explore traditional folk arts
- Learn more from your family and community
- Learn storytelling, egg decorating, basket making

FOLK ARTS LDR

Resource: NCR534, *Folk Arts Leader Guide*

FOLK ARTS YTH LDR

GLASSWORK

HANDMADE DOLLS

JEWELRY MAKING

JUGGLING

What you can do in this project:

- Learn to select the right juggling ball
- Learn 3 steps to basic juggling

Grades: 3-12

Resource: 19083, *4-H Juggling with Andy Talen* (DVD in CES Media Collection)

LATINO CULTURAL ARTS

What you can do in this project:

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

LATINO CULTURAL ARTS LDR

Resource: 08180, *QueRico! La Cultura Bilingual Helper's Guide*

LATINO CULTURAL ARTS YTH LDR

LEATHERCRAFT

What you can do in this project:

- Learn about the characteristics and uses of leather
- Use tools and equipment
- Make patterns and original designs
- Explore various leathercraft techniques

Resource: 4H149, *Adventures in Leathercraft Members Guide*

LEATHERCRAFT LDR

Resource: CIR006, *Adventures in Leathercraft Leaders Guide*

LEATHERCRAFT YTH LDR

LIQUID EMBROIDERY

MACRAME

METAL ENAMELING

MOSAICS

MUSIC

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

Resource: 4H620MP, *Youth and 4-H Music Project Guide*

MUSIC LDR

Resource: 4H351, *Sing Along Songbook*

MUSIC YTH LDR

NEEDLEPOINT

ORNAMENTS

PAPER ART

PHOTOGRAPHY

What you can do in this project:

- 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

Resource: PC1, *Focus on Photography*

- Learn about camera adjustments
- Learn about film speed, shutter speed and aperture
- Take silhouettes, candid, action shots and others

Resource: PC2, *Controlling the Image*

- Learn about wide-angle and telephoto lenses
- Explore the use of light meters and studio lighting
- Experiment with special effect photos
- Take still life photos and portraits

Resource: PC3, *Mastering Photography*

PHOTOGRAPHY LDR

PHOTOGRAPHY YTH LDR

PLASTERCRAFT

POSTERS

FUZZY POSTERS

POTTERY

PRINT MAKING

PUPPETRY

ROCK ART

RUBBER STAMPING - No literature available

RUBBER STAMPING LDR

RUBBER STAMPING YTH LDR

RUG HOOKING

SCRAPBOOKING

Resource: NDSU Extension Service FG108

SCRAPBOOKING LDR

SCRAPBOOKING YTH LDR

SCULPTY CLAY

SIGN LANGUAGE

SOAP CARVING

SOAP MAKING

SPEAKING

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

Resources: COMM02, *4-H Public Speakers Handbook*

COMM06, *4-H Public Speaking Opportunities*

SPEAKING LDR

SPEAKING YTH LDR

STENCIL PAINTING

Make original stencil designs, color experiments on cloth & paper, choosing/using/making tools.

STENCIL PAINTING LDR

STENCIL PAINTING YTH LDR

STRING/WIRE ART

THEATRE ARTS

What you can do in this project:

- Study acting from sound, movement, voice and speech
- Learn different ways to play a scene
- Try pantomime, clowning and improvisation

Resource: 08070, *Play the Role*

- Become a puppeteer
- Investigate the history of puppets
- Explore types of puppets and puppet characters
- Use puppets in community service work
- Plan and present a puppet show

Resource: 08071, *Become a Puppeteer!*

- Study costumes, makeup, stage sets, props and sound
- Learn stage management
- Create sounds and disguises
- Make up your own character and bring it to life

Resource: 08072, *Set the Stage*

THEATRE ARTS LDR

Resource: 08073, *Theatre Arts Helper's Guide*

THEATRE ARTS YTH LDR

TIE DYING

VIDEOGRAPHY

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

Resource: IS401, *Action! Making Videos & Movies*

WEAVING

WEARABLE ART

WOOD ART

WOOD BURNING

SELF-DETERMINED COMMUNICATION & CULTURAL ARTS



FAMILY, HOME & HEALTH

BOWLING

BREADS

CANDYMAKING

CHILD DEVELOPMENT

What you can do in this project:

- Find out how you grow and develop
- Learn the development of babies and toddlers
- Learn how to make toys safe for small children

Resource: 08075, *On My Own*

- Learn how to take care of yourself and others
- See what makes your family special
- Discover how to match toys to ages of children
- Develop family rules, prepare healthy meals
- Check for safety hazards

Resource: 08076, *Growing With Others*

- Explore how to be an effective parent
- Gain experience as a teacher or coach
- Make babysitting and first aid kits
- Check out child development careers

Resource: 08077, *Growing in Communities*

CHILD DEVELOPMENT LDR

Resource: 08078, *Child Development Helper's Guide*

CHILD DEVELOPMENT YTH LDR

CLOTHING 1

What you can do in this project:

- Identify sewing tools and machine parts
- Thread a sewing machine, identify fabrics
- Select and purchase a pattern, sew and clip a seam
- Sort clothes for laundry, remove stains
- Donate a sewing project

Resources: 08060, *Under Construction*

CLOTHING 2

What you can do in this project:

- Identify types of fabric constructions
- Sew different buttonholes and seam finishes
- Use pressing tools and thread a serger
- Research different laundry products

Resource: 08061, *Fashion Forward*

CLOTHING 3

What you can do in this project:

- Use specialized sewing tool or equipment
- Combine patterns to create a design
- Create outdoor wear, design and embellish a garment
- Use a computer to print on fabric

Resource: 08062, *Refine Design*

CLOTHING LDR

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

CLOTHING YTH LDR

CONSUMER SAVVY 1

What you can do in this project:

- Learn your shopping style
- Use the yellow pages to find goods and services
- Know the difference between wants and needs
- Write a savings and spending plan
- Start a savings account

Resource: 08030, *The Consumer in Me*

CONSUMER SAVVY 2

What you can do in this project:

- Identify your personal spending values
- Understand advertising appeal and its affects
- See how peer pressure can influence your purchases
- Understand the risks of shopping on the Internet

Resource: 08031, *Consumer Wise*

CONSUMER SAVVY 3

What you can do in this project:

- Define consumer responsibilities and ethics
- Understand your consumer rights
- Use comparison shopping techniques
- Understand the costs of owning a vehicle

Resource: 08032, *Consumer Roadmaps*

CONSUMER SAVVY LDR

Resource: 08033, *Consumer Savvy Helper's Guide*

CONSUMER SAVVY YTH LDR

CROCHETING

What you can do in this project:

- Learn to select and purchase yarn, thread and equipment
- Explore crocheting and finishing techniques
- Understand care instructions for crocheted items

Resource: CC1403, *Crochet Made Easy*

CROCHETING LDR

CROCHETING YTH LDR

ENTREPRENEURSHIP

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

Resource: 08035, *Entrepreneurship: Be the E*

ENTREPRENEURSHIP LDR

Resource: 08036, *Entrepreneurship Helper's Guide*

ENTREPRENEURSHIP YTH LDR

FOODS & NUTRITION 1

What you can do in this project:

- Kitchen & food safety basics
- Explore MyPlate
- Cooking "How To" Basics
- Recipes and Nutrition Facts

Resource: 01512Y, *4-H Cooking 101*

FOODS & NUTRITION 2

What you can do in this project:

- Fire Safety in the Kitchen
- Understanding nutrition facts and labels
- Cook with different food groups
- Experiment with meal planning

Resource: 01513Y, *4-H Cooking 201*

FOODS & NUTRITION 3

What you can do in this project:

- Outdoor cooking and party planning
- Slow cooker meals
- Introduction to Grains and Yeast Breads
- Experiment with cheese
- Introduction to cakes and desserts

Resource: 01514Y, *4-H Cooking 301*

FOODS & NUTRITION 4

What you can do in this project:

- Develop advanced food preparation skills
- Learn dry-heat and moist-heat cooking methods
- Experiment with spices and herbs
- Planning and hosting community meals

Resource: 01515Y, *4-H Cooking 401*

FOODS & NUTRITION LDR

Resource: 01516F, *4-H Cooking Helper's Guide*

FOODS & NUTRITION YTH LDR

FOODS PRESERVATION

What you can do in this project:

- Learn the basics of preserving food safely
- Use Extension Safe Food Preservation Series

Literature can be purchased or printed online at:

<https://learningstore.extension.wisc.edu/>. This project introduces youth to the basics of preserving fruits, vegetables, and meats safely. Select publications from the *Extension Safe Food Preservation Series* for the foods that you want to preserve.

FOODS PRESERVATION LDR

FOODS PRESERVATION YTH LDR

FUN & FITNESS

HEALTH

What you can do in this project:

- Practice first aid skills to treat basic injuries
- Learn how to respond to someone who is choking
- Assemble a first aid kit

Resource: 08174, *First Aid in Action*

- Identify your personal talent areas in health care
- Explore hygiene, nutrition and physical activities
- Share what you learn with others

Resource: 08175, *Staying Healthy*

- Design your own fitness plan
- Track your plan and review your progress
- Interview individuals in the health and fitness fields

Resource: 08176, *Keeping Fit*

HEALTH LDR

HEALTH YTH LDR

HOME ENVIRONMENT

What you can do in this project:

- Learn about home care
- Learn to sand and finish a simple wood item
- Make small home decorative items for the home
- Explore the world of home interior design

Resource: 4H425, *Exploring Your Home*

- Become more involved with activities around the home
- Learn to handle home tasks and entertain guests
- Refinish wood furnishings and make other home items

Resource: 4H426, *Living With Others*

- Learn the principles of home design
- Learn scale, balance and proportion in home design
- Use the principles of design to arrange your home
- Create storage centers, restore furniture
- Create a welcoming environment outside your home

Resource: 4H427, *Where I Live*

- Focus on application of design fundamentals
- Learn about purchasing furnishings for the home
- Restore or make a heritage item

Resource: 4H465, *In My Home*

HOME ENVIRONMENT LDR

HOME ENVIRONMENT YTH LDR

INTERGENERATIONAL PROGRAMS

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

Resource: NCR591, *Walk in My Shoes Member Guide*

INTERGENERATIONAL PROGRAMS LDR

Resource: NCR548, *Walk in My Shoes Leaders Guide*

INTERGENERATIONAL YTH LDR

KNITTING

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

Resource: CC1402, *Knitting Made Easy*

KNITTING LDR

KNITTING YTH LDR

MICROWAVE

PERSONAL FINANCE

What you can do in this project:

- Learn money management skills
- Learn how to live on a budget

Resource: 07710, *Money FUNdamentals*

- Learn about wants and needs, values and goal setting
- Explore ways to use and save money
- Learn the benefits and drawbacks of credit
- Survey and select financial services

Resource: 07711, *Money Moves*

PERSONAL FINANCE LDR

Resource: 07712, *Financial Champions Helper's Guide*

PERSONAL FINANCE YTH LDR

QUILTING

Learn basics of quilting. (No literature available)

QUILTING LDR

QUILTING YTH LDR

SAFETY

SOFTBALL

SPORTS

WOOLSPINNING

WORKFORCE READINESS

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

Resource: 08191, *Get in the Act! Take 1 (with CD)*

WORKFORCE READINESS LDR

Resource: 08192, *Get in the Act! Take 1 Helper's Guide*

WORKFORCE READINESS YTH LDR

SELF—DETERMINED FAMILY, HOME & HEALTH



MECHANICAL SCIENCES

AEROSPACE

What you can do in this project:

- Build straw and paper rockets
- Learn to read a map, identify types of aircraft
- Discover how weather affects flying
- Build and fly a kite, make a hot-air balloon model

Resource: 06843, *Lift Off*

- Build, exhibit, and launch model rockets
- Test a paper hang glider
- Make a flight simulator, demonstrate why rockets fly
- Organize a kite-flying contest

Resource: 06844, *Reaching New Heights*

- Design and build rockets and box kites
- Build an altitude tracker, plan a flight route
- Discover the affects of gravity
- Explore life in space and aerospace careers

Resource: 06845, *Pilot in Command*

AEROSPACE LDR

Resource: 06846, *Aerospace Helper's Guide*

AEROSPACE YTH LDR

AUTOMOTIVE

BICYCLING – ENG & TECH

What you can do in this project:

- Choose a bike that's right for you
- Practice bike maintenance
- Learn road rules

Resource: 08335, *Wheels in Motion*

BICYCLING LDR

Resources: 08336, *Bicycle Helper's Guide*

087507, *Bicycle Fix It! (DVD)*

BICYCLING YTH LDR

BLACKSMITHING

COMPUTERS

What you can do in this project:

- Learn about hardware, software and various applications
- Explore how they work, what are the components
- Learn the various programs and their features
- Participation is supported by an interactive website

Resource: 08346, *Newbie Know How*

- Build and repair a computer
- Identify the components and how they work together
- Learn to upgrade and create connections
- Install operating systems

Resource: 08347, *Inside the Box*

- Discover how to create and manage networks
- Make decisions about network management
- Explore security issues and troubleshooting

Resource: 08348, *Peer to Peer/Reaching Beyond*

COMPUTERS LDR

Resource: 08349, *Teens Teaching Tech*

COMPUTERS YTH LDR

ELECTRICITY 1

What you can do in this project:

- Understand how to use electricity
- Identify electrical materials, build a flashlight
- Build and test a switch, wire a simple circuit
- Build and test a compass, build an electric motor

Resource: 06848, *Magic of Electricity*

ELECTRICITY 2

What you can do in this project:

- Work with electrical equipment
- Learn to read circuit diagrams
- Build a circuit and measure voltages
- Communicate in Morse code

Resource: 06849, *Investigating Electricity*

ELECTRICITY 3

What can I do in this project:

- Develop a basic electrical tool and supply kit
- Understand the symbols on wires and cables
- Replace a wall switch, locate your home wiring system

Resource: 06850, *Wired for Power*

ELECTRICITY 4

What you can do in this project:

- Identify electrical and electronic parts and devices
- Learn how to solder and prepare parts for assembly
- Assemble a circuit using a transistor

Resource: 06851, *Entering Electronics*

ELECTRICITY LDR

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

ELECTRICITY YTH LDR

FLYING

GEOCACHING

GEOSPATIAL

What you can do in this project:

- Discover ways of thinking about geographic positions
- Learn about navigational tools: GIS, GPS, compasses
- Learn to measure distances

Resource: CD8458, *Exploring Spaces, Going Places CD*
("Getting Out" section)

- Learn how to collect data
- Combine data with geographical positions
- Make maps of home, neighborhoods and community

Resource: CD8358, *Exploring Spaces, Going Places CD*
("On the Trail" section)

- Use multi-layered maps to attempt to solve problems
- Find ways to reduce traffic congestion
- Pinpoint pollution sources
- Discover ways of boosting tourism through mapping

Resource: CD8358, *Exploring Spaces, Going Places CD*
("Reaching Your Destination" section)

GEOSPATIAL LDR

GEOSPATIAL YTH LDR

HANDYMAN

LEGOS

LEGOS LDR

LEGOS YTH LDR

MAINTENANCE & REPAIR

MECHANICAL SCIENCES

MODEL CARS

MODEL RAILROAD

MODEL ROCKETRY

OFF-HIGHWAY VEHICLES

RADIO-CONTROLLED PLANE

REMOTE CONTROLLED CARS

ROBOTICS

SCALE MODELS

What you can do in this project:

- 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

Resource: 4H424, *Guidelines for Building Scale Models*

SCALE MODELS LDR

SCALE MODELS YTH LDR

SMALL ENGINES 1

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 issues

Resource: 08186, *Crank It Up!*

SMALL ENGINES 2

What you can do in this project:

- Explore the internal parts of engines
- Learn engine sizes, safety issues
- Explore different jobs related to small engines

Resource: 08187, *Warm It Up!*

SMALL ENGINES 3

What you can do in this project:

- Tear down and rebuild an engine
- Learn to use diagnostic tools
- Research rules and regulations in using small engines

Resource: 08188, *Tune It Up!*

SMALL ENGINES LDR

Resource: 08189, *Small Engines Helper's Guide*

SMALL ENGINES YTH LDR

SNOWMOBILING

STEM

STEM, EXPLORING

TRACTOR CERTIFICATION

TRACTORS

What you can do in this project:

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

Resource: 4H961, *Starting Up: Getting to Know Your Tractor*

- Practice farm and tractor safety
- Understand the mechanics of engines
- Identify accessory equipment
- Learn the functions of different operational systems

Resource: 4H962, *Tractor Operations: Gearing Up for Safety*

- Learn types of oil systems and fuel safety
- Learn how to hook on a PTO unit
- Learn tractor and machinery maintenance

Resource: 4H963, *Moving Out: Learning About Your Tractor & Farm Machinery*

- Focus on safety and maintenance

- Identify and work with operational systems

Resource: 4H964, *Learning More: Learning About Agricultural Tractors & Equipment*

TRACTORS LDR

TRACTORS YTH LDR

WELDING

WOODWORKING 1

What you can do in this project:

- Learn safety practices when working with wood and tools
- Use various hand tools: hammer, handsaw
- Identify types of nails and wood
- Sand and paint a piece of wood

Resource: 08675, *Measuring Up*

WOODWORKING 2

What you can do in this project:

- Identify functions of various tools
- Practice safety techniques
- Select a project to build (birdhouse, foot stool)
- Use a screwdriver and combination square

Resource: 06876, *Making the Cut*

WOODWORKING 3

What you can do in this project:

- Compare different types of hinges
- Enlarge scale-drawn woodworking plans
- Use a hand plane, build a laminated cutting board
- Compare different grades of plywood

Resource: 06877, *Nailing It Together*

WOODWORKING 4

What you can do in this project:

- Use a table saw, router, powered circular saw and sander
- Learn to make more difficult joints
- Evaluate exotic and veneer woods
- Create inlays and overlays, test various adhesives

Resource: 06878, *Finishing Up*

WOODWORKING LDR

Resource: 06879, *Woodworking Helper's Guide*

WOODWORKING YTH LDR

SELF-DETERMINED MECHANICAL SCIENCE



NATURAL RESOURCES, SHOOTING SPORTS, & ENVIRONMENTAL EDUCATION

ADVENTURES

What you can do in this project:

- Learn how to camp safely in all weather conditions
- Investigate camping equipment and clothing
- Build a campfire and cook a meal
- Practice tying knots and first aid
- Learn to use a map and compass

Resource: 4H444, *Introduction to Adventures*

ADVENTURES LDR

Resource: 4H443, *4-H Adventure Project*

ADVENTURES YTH LDR

AQUATIC SCIENCE

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

Resource: 751, *Archery Member Record Book*

ARCHERY LDR

Training to receive the *Archery Guide and WI Shooting Sports Basic 4-H Guidelines*. For more information, see [WI 4-H Shooting Sports website](#)

Resource: 751, *Archery Member Record Book*

ARCHERY YTH LDR

ASTRONOMY

BACKPACKING & HIKING

What you can do in this project:

- Plan a day hike, select items, plan the food
- Learn to organize and pack a backpack
- Select appropriate clothing, prepare a first aid kit
- Learn to use a compass, prepare for dangerous weather

Resource: 08043, *Hiking Trails*

- Plan a camping trip, select equipment including shelter
- Plan a camping trip menu and prepare supplies
- Practice "Leave No Trace" principles while hiking
- Study various organism habitats

Resource: 08044, *Camping Adventures*

- Select group backpacking gear including a tent
- Design a non-tent backpacking shelter
- Develop a personal conditioning program
- Learn to orient a map and use triangulation

Resource: 08045, *Backpacking Expeditions*

BACKPACKING & HIKING LDR

Resource: 08046, *Outdoor Adventures Helper's Guide*

BACKPACKING & HIKING YTH LDR

BEEES

Learn how bees live & work; honey production; seasonal care & management. Downloadable Resources:

4H571-W, *Understanding the Honey Bee*

www.extension.purdue.edu/extmedia/4H/4-H-571-W.pdf

4H586-W, *Working with Honey Bees*

www.extension.purdue.edu/extmedia/4H/4-H-586-W.pdf

4H593-W, *Advanced Beekeeping Methods*

www.extension.purdue.edu/extmedia/4H/4-H-593-W.pdf

BICYCLING – ENVIRON ED

What you can do in this project:

- Learn how and where to bicycle safely
- Plan a bicycle camping trip
- Design and build a bicycle obstacle course
- Conduct a bike maintenance check

Resource: 4H446 *Bicycling*

BIRDS

CAMPING

CANOEING

What you can do in this project:

- Learn how and where to canoe safely
- Select and care for equipment
- Explore aquatic environments
- Plan a canoe camping trip, canoe a river

Resource: 4H447 *Canoeing*

CONSERVATION

CROSS COUNTRY SKIING

DOWNHILL SKIING

ENTOMOLOGY (INSECTS)

What you can do in this project:

- Learn about insects, their behavior and life history
- Discover the parts of an insect's body
- Collect and compare insects
- Explore ways they communicate and move

Resource: 06853, *Creepy Crawlies*

08393, *Project Butterfly Wings Youth Guide*

- Learn how an insect protects itself
- Explore their habitats, create an insect display
- Investigate entomology careers
- Build an insect extractor

Resource: 06854, *What's Bugging You?*

08393, *Project Butterfly Wings Youth Guide*

- Raise and study mealworms and mosquitoes
- Observe a colony of ants
- Make an insect identification key
- Record and collect aquatic insects
- Explore various gardens and habitats

Resource: 06855, *Dragons, Houses, and Other Flies*

ENTOMOLOGY LDR

Resource: 06856, *Entomology Group Helper's Guide*

08393, *Project Butterfly Wings Facilitator Guide*

ENTOMOLOGY YTH LDR

EXPLORING YOUR ENVIRONMENT

What you can do in this project:

- Explore the four elements of life- sun, air, water & soil
- Use your senses to explore the environment
- Connect to the environment through plants and animals
- Learn how the environment is affected by pollution

Resource: 08411, *Earth's Capacity*

- Explore wildlife habitats and tracking
- Learn about groundwater
- Research pollination and how it works

Resource: 08411, *Earth's Capacity*

- Explore the world of biotechnology
- Learn the features of insect creatures
- Begin to understand biodiversity
- Learn what climate has to do with the way we live

Resource: 08410, *Ecosystems Services*

EXPLORING YOUR ENVIRONMENT LDR

Resources: 08412, *Exploring Your Environment Facilitator Guide*

PUB-CE-456, *Education Connection*

PUBL-ER-001, *WI Endangered & Threatened Species*

EXPLORING YOUR ENVIRONMENT YTH LDR

FISHING

What you can do in this project:

- Identify types of tackle
- Organize a tackle box
- Identify different types of bait and fish in your area
- Learn to take proper care of your catch

Resource: 07598, *Take the Bait*

- Find fishing information on the Internet
- Cast a spinning rod and reel
- Learn to tie fishing knots
- Select a recipe and cook a fish
- Collect and analyze aquatic life

Resource: 07599, *Reel in the Fun*

- Learn to reassemble a fishing reel
- Make artificial flies and lures
- Modify fishing equipment
- Investigate sport fishing careers

Resource: 07600, *Cast into the Future*

FISHING LDR

Resource: 07601, *Fishing Adventures – Helper's Guide*

FISHING YTH LDR

FORESTRY

What you can do in this project:

- Identify forest types, forest products and trees
- Age trees by counting rings
- Understand forest competition, find a state forest
- Describe how leaves affect rainfall

Resource: 08038, *Follow the Path*

- Learn how trees move water from soil to canopy
- Diagram a leaf, analyze fire risk
- Understand major forest changes and their impact
- Select urban tree planting sites

Resource: 08039, *Reach for the Canopy*

- Recognize different tree fruits
- Create a community forest map
- Identify forest biomes by continent
- Identify an unknown tree using a tree key

Resource: 08040, *Explore the Deep Woods*

FORESTRY LDR

Resource: 08041, *Forestry Helper's Guide*

FORESTRY YTH LDR

GEOLOGY

HOME ENERGY

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

HUNTING LDR

HUNTING YTH LDR

MAPLE SYRUP Member No literature

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.

MUZZLELOADING LDR

Resource: Each Muzzleloading Leader should attend a Certification Training to receive the *Muzzleloading Guide and WI Shooting Sports Basic 4-H Guidelines*. For more information see [WI 4-H Shooting Sports website](#).

MUZZLELOADING YTH LDR

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.

Resource: 753, *Pistol Member Record Book*

PISTOL LDR

Resource: Each Pistol Leader must attend a Certification Training to receive the *Pistol Guide and WI Shooting Sports Basic 4-H Guidelines*. For more information see [WI 4-H Shooting Sports website](#).

RECYCLING

What you can do in this project:

- Learn about the impact of solid waste on the environment
- Learn to reduce, reuse and recycle

Resource: 4H362, *Recycling for Reuse*

RECYCLING LDR

RECYCLING YTH LDR

REPTILES

ROCK CLIMBING

ROCK HOUND

SCIENCE

SCIENCE DISCOVERY

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.

Resource: 750, *Rifle Member Record Book*

RIFLE LDR

Resource: Each Rifle Leader should attend a Certification Training to receive the *Rifle Guide and WI Shooting Sports Basic 4-H Guidelines*. For more information see [WI 4-H Shooting Sports website](#).

RIFLE YTH LDR

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.

Resource: 752, *Shotgun Member Record Book*

SHOTGUN LDR

Resource: Each Shotgun Leader should attend a Certification Training to receive the *Shotgun Guide and WI Shooting Sports Basic 4-H Guidelines*. For more information see [WI 4-H Shooting Sports website](#).

SHOTGUN YTH LDR

TAXIDERMY

WATER

What you can do in this project:

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

Resource: 4H855, *Give Water A Hand – Action Guide*

WATER LDR

Resource: 4H850, *Give Water A Hand – Leader Guide*

WATER YTH LDR

WEATHER

WILDFLOWERS

What you can do in this project:

- Learn about wildflowers in your neighborhood
- Learn to identify wildflowers and how to collect them
- Discover how humans affect wildflowers

Resource: 4H392, *Wildflowers*

WILDLIFE LDR

WILDLIFE Member No Literature

WILDLIFE YTH LDR

WILDLIFE HABITAT

WIND ENERGY

WINTER TRAVEL

What you can do in this project:

- Discover winter travel on cross-country skis and snowshoes
- Select and take care of equipment and clothing
- Experience a winter overnight campout
- Discover how trees and plants prepare for winter

Resource: 4H448, *Winter Travel*

SELF-DETERMINED ENVIRONMENTAL EDUCATION



PLANT & SOIL SCIENCES

CROPS - ie. CORN

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

Resources: 4H355, *4-H Corn Project Manual*
 4H440, *Marketing Your 4-H Crops*
 4H441, *Is Direct Marketing for My Project?*

CROPS – ie. FORAGE

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

Resources: 4H349, *Pest Scouting Alfalfa*

CROPS – ie. SMALL GRAINS

What you can do in this project:

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

Resources: 4H356, *4-H Small Grains Manual*

CROPS – ie. SOYBEANS

Selecting varieties, planting, diseases, insects & weeds, harvesting/storing, marketing.

CROPS – ie. WEED MANAGEMENT

CROPS LDR

CROPS YTH LDR

FLOWER CRAFTS

FLOWERS

What you can do in this project:

- Identify flower parts and their functions
- Plant flowers and make flower arrangements
- Give a presentation on flowers
- Prepare a flower exhibit

Resources: 4H1301A, *Forcing Spring Flowering Bulbs*
 A2935, *Evaluating & Judging Flowers & Indoor Plants*

- Learn about plant needs and soil testing
- Select and start new plants and grow transplants
- Examine plants for insects and diseases
- Judge a flower exhibit

Resources: 4H1301A, *Forcing Spring Flowering Bulbs*
 A2935, *Evaluating & Judging Flowers & Indoor Plants*

- Design a plant experiment
- Make a landscape plan
- Write instructions on how to force bulbs
- Compare different fertilizers: organic and chemical

Resources: 4H1301A, *Forcing Spring Flowering Bulbs*
 A2935, *Evaluating & Judging Flowers & Indoor Plants*

FLOWERS LDR

Resource: BU7156, *4-H Horticulture Helper's Guide*

FLOWERS YTH LDR

FRUITS

Specify type of fruit.

What you can do in this project:

- Produce fruits from apples to grapes to pears
- Learn about the different varieties of cultivars
- Select the best fruit cultivar for your home garden
- Decide what fruit you want to learn about

Resources: A1597, *Growing Strawberries in Wisconsin*
 A1610, *Growing Raspberries in Wisconsin*
 A1656, *Growing Grapes in Wisconsin*
 A1960, *Growing Currants, Gooseberries, and Elderberries in WI*
 A2072, *Growing Pears in Wisconsin*

FRUITS LDR

FRUITS YTH LDR

HERBS

HOME GROUNDS

What you can do in this project:

- Learn about seeding and lawn care
- Study proper lawn care & maintenance,
- Explore fertilization and pest management

Resource: 4H321, *4-H Lawn Care*

- Learn the importance of planting new trees and shrubs
- Explore variety selection and appropriate placement
- Learn basic maintenance: pruning and fertilization

Resources: A3067, *Selecting, Planting & Caring for Shade Trees*
 A1730, *Evergreens – Planting & Care*

- Explore landscape planning
- Make a plan and put it on paper
- Select, place and plant trees and shrubs
- Maintain your home grounds

Resource: G1923, *Planning & Designing Your Home Landscape*

HOME GROUNDS LDR

HOME GROUNDS YTH LDR

HORTICULTURE

HOUSE PLANTS

What you can do in this project:

- Identify plant parts and their functions
- Grow house plants, start a plant from a cutting
- Make a dish garden,
- Prepare house plants for exhibit
- Learn about plant seeds and soil
- Select and start new plants and grow transplants
- Plant a terrarium
- Examine plants for insects and diseases
- Take a tour of a horticulture business
- Design a plant experiment
- Teach others how to grow house plants
- Compare different fertilizers: organic and chemical

Resources: 4H328, *Propagating and Growing House Plants*

HOUSE PLANTS LDR

Resource: BU7156, *4-H Horticulture Helper's Guide*
 07166 *Gardening: A Helper's Guide*

HOUSE PLANTS YTH LDR

PLANT CRAFTS

What you can do in this project:

- Learn to harvest plants
- Use different drying techniques
- Learn how to use plant materials
- Learn how to make dried arrangements, corsages, etc.

Resources: 4H330, *Plant Crafts*

PLANT CRAFTS LDR

PLANT CRAFTS YTH LDR

SOIL SCIENCE

VEGETABLES

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, plan an outdoor garden
- Prepare a vegetable exhibit for show

Resources: 07162 *Gardening: See Them Sprout*
4H395, *Organically Grown – Handbook*
4H409, *Nature's Herbs*
A3306, *Exhibiting & Judging Vegetables*

- Learn about plant needs and soil testing
- Start new plants, grow transplants, explore hydroponics
- Build a compost pile, use mulches

Resource: 07162, *Gardening: Let's Get Growing*

- Grow plants in a cold frame

- Make a site analysis and landscape plan
- Compare organic and chemical fertilizers
- Research various insect control methods

Resource: 07164, *Gardening: Take Your Pick*

VEGETABLES LDR

Resource: BU7156, *4-H Horticulture Helper's Guide*
07166 *Gardening: A Helper's Guide*

VEGETABLES YTH LDR



INTERNATIONAL PROGRAMS

INTERNATIONAL

What you can do in this project:

- Explore the world around you with maps
- Track weather in various parts of the world
- Make your family tree by talking with relatives
- Explore where your ancestors came from

Resource: 4H812, *And My World*

INTERNATIONAL LDR

INTERNATIONAL YTH LDR

