A 4-H project is an area that you want to learn more about during the year. There are projects on just about any topic you would like to study and explore, from art to woodworking, from computers to rabbits, from clothing to small engines.

In many project areas, you are able to access 4-H literature and curriculum and work on your project area on your own or with the help of your club leaders and parents. In some project areas, Barron County 4-H volunteers offer opportunities for members to get together and learn in meetings, clinics and/or workshops.

Organized project areas in Barron County 4-H which hold at least one project meeting or learning experience per year include:

- Beef
- Dairy
- Goat
- Horse
- Therapeutic Riding
- Swine
- Sheep
- Dogs
- Llama
- Leathercraft
- Aerospace
- Small Engines
- Tractors
- Archery
- Air Pistol
- Rifle
- Shotgun
- Muzzleloading
- Air Rifle

Leaders in other project areas may hold a learning experience in addition to the listed ones.

4-H Adventure Days, held on one Saturday per month over the winter months, offers learning experiences in many different project areas, which may include:

- Rabbits
- Cats
- Photography
- Arts and Crafts (various)
- Folk Arts (various)
- Cake Decorating
- Natural Resources
- Plant & Soil Science

4-H Volunteers are welcome to hold a workshop during Adventure Days or at some other time in a project area in which they would like to share their knowledge.

In addition to these county-wide experiences, ask your club leader if there are any special project areas that your club focuses on.

**How to Select 4-H Projects**

**4-H members**
First, make a list of the things you like to do or want to learn more about. Talk over your list with your parents, leaders and friends. They may recognize some special things you are good at that you don’t even realize you do well.

Then compare your list with the projects described in this guide. Ask yourself if you have the equipment, money and time to do the projects that sound interesting.

Your club organizational leader will give you directions to sign up for 4-H membership and projects using 4HOnline, a program on the internet (https://4Honline.com).

Many projects have more than one level. If you've had a lot of experience in an area, you may skip the beginning level of a project. Grade levels listed are only recommendations.

If this is your first year in 4-H, concentrate on doing only two or three projects well. Usually you can spend more than one year in a project unit because there are enough ideas there to span two or three years.

Cloverbuds (youth in Grades K-2) can only enroll in Cloverbuds and/or Exploring.

**4-H adult volunteers**
If you’re a 4-H adult leader, please indicate project areas in which you will volunteer on your 4-H enrollment on 4HOnline (https://4Honline.com). This will help ensure that you get notices related to the project areas you are interested in.

**4-H curriculum**
Most 4-H projects have curriculum associated with them. You may order the curriculum through your club’s general leader at enrollment time (using 4HOnline), or perhaps someone in your club already has the book and will share it. At any time throughout the year, you can access these resources and order them online through the state or national 4-H websites.

Check out the project pages on the Wisconsin 4-H Web Site at www.uwex.edu/ces/4h/onlinpro/index.cfm. On these pages, you’ll find descriptions for statewide projects, Internet resources and links of interest, county fair exhibit suggestions, state specialist contacts, and other suggested 4-H resources.

**2015-2016 Re-Enrollment and New Enrollment**
All 4-H members and volunteer leaders will be enrolling online using 4HOnline at https://4Honline.com. Those re-enrolling should log in to their existing account. Contact the UW-Extension office if you forgot your password.

You may add projects until April 1 or the kickoff meeting for a project area, whichever comes first.
Table of Contents
Youth Leadership, page 2
Younger Members, page 2
Service Learning & Citizenship, page 3
Self Determined, page 3
Animal Sciences, pages 3-8
Communication Arts, pages 9
Performing Arts, pages 9-10
Visual Arts, pages 10-12
Family, Home & Health, pages 12-13
Consumer Education, page 14
Foods and Nutrition, pages 14-15
Clothing and Textiles, pages 15-16
Mechanical Sciences, pages 16-18
Natural Resources & Environmental Education, pages 18-21
Shooting Sports, pages 21-22
Plant & Soil Sciences, pages 22-24
STEM (Science, Tech, Engineering & Math), pages 24-25
International Programs, page 25

Youth Leadership

All older youth involved in Junior Leaders or Ambassadors have to sign up for this project area and enter a related fair exhibit in Department J-33 Youth Leadership.

Youth Leadership 1
What you can do in this project:
• Assess your leadership skills
• Practice effective communication skills
• Set goals and resolve conflict
• Plan a group event
Grades: 3-5
Resource: 07905, My Leadership Workbook for Grades 3-5

Youth Leadership 2
What you can do in this project:
• Explore how leaders are different
• Develop a multi-media presentation
• Set and achieve team goals
• Practice teamwork
Grades: 6-8
Resource: 07906, My Leadership Journal for Grades 6-8

Youth Leadership 3
What you can do in this project:
• Build trust in a group
• Assess your own strengths and weaknesses
• Write vision and mission statements
• Contribute to a group project
Grades: 9-12
Resource: 07907, My Leadership Portfolio for Grades 9-12

Younger Members

Cloverbuds 1
What you can do in this project:
• Learn about your 4-H club or group
• Begin developing different skills, e.g., working with others
• Explore your community
• Discover areas of project interest
Grade: Kindergarten
Resources: 05561, Cloverbuds – Activity Sheets
05562, Cloverbuds – Program Record
05563, Cloverbuds – Participation Summary

Cloverbuds 2
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
Grade: 1
Resource: See Cloverbuds 1

Cloverbuds 3
What you can do in this project:
• Begin learning about specific 4-H project areas
• Learn to complete projects as an individual
• Share with others what you have learned
Grade: 2
Resource: See Cloverbuds 1

Cloverbuds LDR
Resources: 05560, 4-H Discovery Program for 6-8 Yr. Olds
Webpage: 4h.uwex.edu/onlinpro/cloverbuds.cfm

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

10300 Exploring LDR
Resources: 08172, Exploring Treasures of 4-H Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/exploring.cfm
SERVICE LEARNING & CITIZENSHIP

CITIZENSHIP
What you can do in this project:
• Discover and discuss public issues
• Plan a project to change or improve your community

Grades: 4-12
Resource: 08153, Citizenship Adventure Kit

CITIZENSHIP LDR
Webpage: 4h.uwex.edu/onlinpro/citizenship.cfm

CITIZENSHIP YTH LDR

LATINO CULTURAL ARTS
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: 3-8

LATINO CULTURAL ARTS LDR
Resource: 08180, QueRico! La Cultura Bilingual Helper's Guide
Webpage: 4h.uwex.edu/onlinpro/LatinoCulturalArts.cfm

LATINO CULTURAL ARTS YTH LDR

SERVICE LEARNING 1
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: 5-8
Resource: 08182, Agents of Change + CD

SERVICE LEARNING 2
What you can do in this project:
• Plan and implement your own service project
• Share your project plan and outcome with others
• Conduct an evaluation of your project

Grades: 9-12
Resource: 08183, Raise Your Voice + CD

SERVICE LEARNING LDR
Resource: 08184, Service Learning Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/ServiceLearning.cfm

SERVICE LEARNING 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

Grades: 3-13
Resource: 4H272, Designing Your Own Project

SELF-DETERMINED LDR
Webpage: 4h.uwex.edu/onlinpro/selfdetermined.cfm

SELF-DETERMINED YTH LDR

SELF-DETERMINED ANIMAL SCIENCES

ANIMAL SCIENCES

BEEF 1
What you can do in this project:
• Identify various beef breeds
• Identify parts of a beef animal
• Halter-break and show a calf
• Fit and judge beef cattle
• Recognize and raise a healthy animal

Grades: 3-5
Resources: 08143, Bite Into Beef
4H450, Judging Breeding & Market Cattle

BEEF 2
What you can do in this project:
• 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

Grades: 6-8
Resources: 08144, Here’s the Beef

BEEF 3
What you can do in this project:
• Explore selection and judging
• Learn about careers, health, reproduction, etc.
• Discover how to market your animal and by-products

Grades: 9-12
Resources: 08145, Leading the Charge

BEEF LDR
Resources: 08146, Beef Helper’s Guide
117R, Beef Resource Handbook
Webpage: 4h.uwex.edu/onlinpro/beef.cfm
BEEF YTH LDR

CATS 1
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

Grades: 3-5
Resource: 08148, Purr-fect Pals

CATS 2
What you can do in this project:
- 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

Grades: 6-8
Resource: 08149, Climbing Up!

CATS 3
What you can do in this project:
- Explore veterinary procedures
- Learn reproduction and cat body systems
- Learn showmanship and cat behavior
- Explore community laws and animal welfare

Grades: 9-12
Resource: 08150, Leaping Forward

CATS LDR
Resource: 08151, Cat Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/cats.cfm

CATS YTH LDR

DAIRY 1
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

Grades: 3-5
Resources: 08161, Cowabunga
CANADA1, Showmanship...Leading to Win
4H501, Dairy Cattle Judging Made Easy – CD

DAIRY 2
What you can do in this project:
- Explore ways to keep an animal healthy
- Observe animal behavior

Grades: 6-8
Resources: 08162, Mooving Ahead
4H502, The Rules are Black and White

DAIRY 3
What you can do in this project:
- 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

Grades: 9-12
Resources: 08163, Rising to the Top

DAIRY LDR
Resource: 08164, Dairy Cow Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/dairy.cfm

DAIRY YTH LDR

DOGS 1
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

Grades: 3-5
Resources: 08166, Wiggles and Wags
4H436, The Basics of Training Your Dog

DOGS 2
What you can do in this project:
- Explore dog health and nutrition
- Discover genetic problems and population control
- Learn showmanship and training techniques
- Learn about show-ring ethics

Grades: 6-8
Resources: 08167, Canine Connection
4H439, Dog Obedience – Novice & Beyond

DOGS 3
What you can do in this project:
- Investigate responsible breeding
- Care for geriatric dogs
- Train service dogs
- Explore careers related to dogs

Grades: 9-12
Resources: 08168, Leading the Pack
4H437, A Guide to Showmanship
DOGS LDR
Resources: 08169, Dog Helper’s Guide
4H458, 4-H Dog Judging Guidelines
Webpage: 4h.uwex.edu/onlinpro/dogs.cfm

DOGS YTH LDR

DAIRY GOAT 1
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
Grades: 3-5
Resource: 08352, Getting Your Goat

DAIRY GOAT 2
What you can do in this project:
• 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
Grades: 6-8
Resource: 08353, Stepping Out

DAIRY GOAT 3
What you can do in this project:
• 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
Grades: 9-12
Resource: 08354, Showing the Way

DAIRY GOAT LDR
Resource: 08355, Dairy Goat Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/goats.cfm

DAIRY GOAT YTH LDR

MEAT GOAT 1
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
Grades: 3-4
Resource: 07909, Just Browsing

MEAT GOAT 2
What you can do in this project:
• Recognize meat goat diseases
• Select a veterinarian and purchase breeding stock
• Understand reproduction cycle and keep records
• Fit and show meat goats
Grades: 5-8

MEAT GOAT 3
What you can do in this project:
• Learn to control diseases
• Understand bio-security and quality assurance
• Formulate rations
• Evaluate goat pastures
Grades: 9-12
Resource: 07911, Meating the Future

MEAT GOAT LDR
Webpage: 4h.uwex.edu/onlinpro/goats.cfm

MEAT GOAT YTH LDR

HORSE 1
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
Grades: 3-5
Resources: 08053, Giddy Up & Go
CO200, Horses & Horsemanship
CO201, Horse Science
4H180, Pleasure Riding

HORSE 2
What you can do in this project:
• Practice horsemanship and judging
• Understand horse selection and training
• Learn about tack, feeding and diseases
• Practice showing a horse and trail riding
Grades: 6-8
Resource: 08054, Head, Heart & Hooves

HORSE 3
What you can do in this project:
• Explore horse breeding, genetics and heredity
• Understand horse diseases and prevention
• Learn about fencing, pasturing and housing
• Explore horse-related careers
Grades: 9-12
Resource: 08055, Stable Relationships

HORSE 4
What you can do in this project:
• Train a horse
• Practice a round-pen workout
• Learn English and Western style bridles
• Understand equitation and riding styles
Grades: 3-7
Resource: 08056, Riding the Range
HORSE 5
What you can do in this project:
• Learn to set goals
• Compare costs of show clothing
• Present your horse in showmanship classes
• Rate your showmanship skills
• Practice proper show ethics
Grades: 8-12
Resource: 08057, Jumping to New Heights

HORSE/ HORSELESS HORSE LDR
Resources: 08058, Horse Helper's Guide
Webpage: 4h.uwex.edu/onlinpro/horses.cfm

HORSE/ HORSELESS HORSE YTH LDR

CLOTHES HORSE
What you can do in this project:
• Learn how to make riding apparel and equipment
• Develop sewing and creative skills
• Understand textile selection and care
Grades: 3-12
Resources: 4H374, Additional Patterns for Clothes Horse
4H389, Horse & Riding Attire

CLOTHES HORSE LDR
Resource: 4H360, 4-H Clothes Horse Activity Guide
Webpage: 4h.uwex.edu/onlinpro/horses.cfm

CLOTHES HORSE YTH LDR

DRAFT HORSE
What you can do in this project:
• Explore different breeds and characteristics
• Learn conformation, selection and nutrition
• Practice harnessing and hitching
Grades: 6-8
Resource: 4H181, Draft Horse

HORSE EQUITATION

HORSELESS HORSE 1
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
Grades: 3-5
Resource: 08053, Giddy Up & Go
4H266, Horses are Fun- Horseless Horse

HORSELESS HORSE 2
What you can do in this project:
• Learn about horsemanship
• Explore judging and oral reasons
• Learn selection, training and showing
• Practice trail riding skills
Grades: 6-8
Resource: 08054, Head, Heart & Hooves

HORSELESS HORSE 3
What you can do in this project:
• Explore horse breeding, genetics and heredity
• Understand horse diseases and prevention
• Learn about fencing, pasturing and housing
• Explore horse-related careers
Grades: 9-12
Resource: 08055, Stable Relationships

LLAMAS 1

LLAMAS 2

LLAMAS 3

LLAMAS LDR

LLAMAS YTH LDR

PETS 1
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
Grades: 3-5
Resource: 06359, Pet Pals

PETS 2
What you can do in this project:
• Explore animal digestion and feeding
• Shop for pet supplies
• Determine the animal’s sex and proper health
• Study pet behavior and communication
Grades: 6-8
Resource: 06360, Scurrying Ahead

PETS 3
What you can do in this project:
• Explore pet products
• Teach others about pets
• Understand how genetics work
• Explore animal welfare issues
Grades: 9-12
Resource: 06361, Scaling the Heights

PETS LDR
Resource: 06362, Pet Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/pets.cfm

PETS YTH LDR
POULTRY 1
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
Grades:  3-5
Resources:  06363, *Scratching the Surface*
             CIR878, *From Egg to Chick*

POULTRY 2
What you can do in this project:
- Observe a healthy flock
- Select and judge broilers
- Discover how an egg is formed
- Prevent poultry diseases
- Discover how chicks imprint
Grades:  6-8
Resources:  06364, *Testing Your Wings*
             4H281, *Poultry for Fun & Food*
             A2880, *Chicken Breeds & Varieties*

POULTRY 3
What you can do in this project:
- Organize a judging clinic
- Manage a laying flock
- Discover qualities of eggs
- Handle poultry products safely
- Process a chicken
Grades:  9-12
Resources:  06365, *Flocking Together*

POULTRY LDR
Webpage:  [4h.uwex.edu/onlinpro/poultry.cfm](http://4h.uwex.edu/onlinpro/poultry.cfm)

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 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:  3-5
Resources:  06367, *Lambs, Rams and You*
             4H421, *Judging Breeding & Market Sheep*

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 1
What you can do in this project:
- Learn about selecting and handling rabbits
- Identify rabbit breeds and body parts
- Explore health issues and feeding
Grades:  3-5
Resource:  08080, *What’s Happening?*

RABBITS 2
What you can do in this project:
- Learn to select show rabbits
- Give oral reasons and judge rabbits
- Learn to tattoo
- Detect diseases
- Keep records of animals
Grades:  6-8
Resource:  08081, *Making Tracks*

RABBITS 3
What you can do in this project:
- Learn about breeding and genetics
- Design a rabbitry
- Market rabbits
- Learn about disease prevention and rabbit registration
Grades:  9-12
Resource:  08082, *All Ears*

RABBITS LDR
Webpage:  [4h.uwex.edu/onlinpro/rabbits.cfm](http://4h.uwex.edu/onlinpro/rabbits.cfm)

RABBITS YTH LDR

SHEEP 1
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
Grades:  3-5
Resources:  06367, *Lambs, Rams and You*
             4H421, *Judging Breeding & Market Sheep*
SHEEP 2
What you can do in this project:
• Learn to identify sheep parasites
• Promote meat safety
• Judge wool
• Diagnose sheep diseases
• Use medications safely
• Explore careers
Grades: 6-8
Resources: 06368, Shear Delight

SHEEP 3
What you can do in this project:
• Set sheep production goals
• Plan sheep related activities
• Market sheep products and teach others
• Plan a judging contest
• Explore careers
Grades: 9-12
Resources: 06369, Leading the Flock

SHEEP LDR
Resources: 06370, Sheep Helper's Guide
194R, Sheep Resource Handbook
Webpage: 4h.uwex.edu/onlinpro/sheep.cfm

SHEEP YTH LDR

SMALL ANIMALS

SMALL ANIMALS LDR

SMALL ANIMALS YTH LDR

SWINE 1
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
Grades: 3-5
Resources: 08065, The Incredible Pig
4H412, Judging Breeding & Market Swine

SWINE 2
What you can do in this project:
• 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
Grades: 6-8
Resources: 08066, Putting the Oink in the Pig

SWINE 3
What you can do in this project:
• Learn to make breeding and culling decisions
• Judge a class of breeding gilts
• Design a preventative herd health plan
• Manage a feeding program
Grades: 9-12
Resources: 08067, Going Whole Hog

SWINE LDR
Resources: 08068, Swine Helper's Guide
Webpage: 4h.uwex.edu/onlinpro/swine.cfm

SWINE YTH LDR

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
Grades: 3-5
Resources: 08048, From Airedales to Zebras
4H334, Adventure Notebook
4H131, The Normal Animal

VETERINARY SCIENCE 2
What you can do in this project:
• Create health records for your animal
• Conduct food safety experiments
• Discover importance of immunity and bio-security
• Consider ethics and animal welfare
Grades: 6-8
Resources: 08049, All Systems Go
4H048, Animal Disease

VETERINARY SCIENCE 3
What you can do in this project:
• Investigate the importance of genetics
• Understand diseases that spread from animals to humans
• Learn about diversity of veterinary careers
Grades: 9-12
Resources: 08050, On the Cutting Edge
4H133, Animal Health

VETERINARY SCIENCE LDR
Resources: 08051, Veterinary Science Helper's Guide
4H192, Veterinary Science
4H323, The Normal Animal - Leader's Guide
Webpage: 4h.uwex.edu/onlinpro/vetscience.cfm

VETERINARY SCIENCE YTH LDR
COMMUNICATION ARTS

COLLECTIONS

COLLECTIONS LDR

COLLECTIONS YTH LDR

COMMUNICATIONS 1
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

Grades: 3-5
Resource: 08156, Picking Up the Pieces

COMMUNICATIONS 2
What you can do in this project:
• Learn to become a confident communicator
• Present oral reasons, plan and present speeches
• Practice making good first impressions

Grades: 6-8
Resource: 08157, Putting It Together

COMMUNICATIONS 3
What you can do in this project:
• Polish your communication skills
• Explore communication careers
• Write résumés and interview for a job

Grades: 9-12
Resource: 08158, The Perfect Fit

COMMUNICATIONS LDR
Resources: 08159, Communications Helper’s Guide
COMM04, Voices From the Past
COMM05, It’s All in the Family
COMM07, Communication Activities for 4-H Clubs

Webpage: 4h.uwex.edu/onlinpro/communications.cfm

COMMUNICATIONS YTH LDR

CREATIVE WRITING
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: 3-12
Resources: COMM01, Creative Wordworking
COMM03, Crazy About Books Reading Circle

CREATIVE WRITING LDR

CREATIVE WRITING YTH LDR

DEMONSTRATIONS

DEMONSTRATIONS LDR

DEMONSTRATIONS YTH LDR

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

Grades: 3-12
Resources: COMM02, 4-H Public Speakers Handbook
COMM06, 4-H Public Speaking Opportunities

SPEAKING LDR

SPEAKING YTH LDR

PERFORMING ARTS

CLOWNING
What you can do in this project:
• Discover the history of clowning
• Develop your own character
• Design your own makeup, costume and props

Grades: 3-12
Resource: 4H265, Enter the Clowns

CLOWNING LDR

CLOWNING YTH LDR

DANCE

DANCE LDR

DANCE YTH LDR

JUGGLING

JUGGLING LDR

JUGGLING YTH LDR

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

Webpage: http://4h.uwex.edu/events/ArtsandCommunications.cfm

2016 Barron County 4-H Project Guide - 9 - http://barron.uwex.edu
Teach others and make instruments
Grades: 3-12
Resource: 4H620MP, Youth and 4-H Music Project Guide

MUSIC LDR
Resource: 4H351, Sing Along Songbook
Webpage: 4h.uwex.edu/onlinpro/Music.cfm

MUSIC YTH LDR

PUPPETRY

PUPPETRY LDR

PUPPETRY YTH LDR

THEATRE ARTS 1
What you can do in this project:
• Study acting, sound, movement, voice and speech
• Learn different ways to play a scene
• Try pantomime, clowning and improvisation
Grades: 3-5
Resource: 08070, Play the Role

THEATRE ARTS 2
What you can do in this project:
• 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
Grades: 6-8
Resource: 08071, Become a Puppeteer!

THEATRE ARTS 3
What you can do in this project:
• 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
Grades: 9-12
Resource: 08072, Set the Stage

THEATRE ARTS LDR
Resource: 08073, Theatre Arts Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/theatre.cfm

THEATRE ARTS YTH LDR

VISUAL ARTS

ART 1
What you can do in this project
• Learn art through cutting, pasting and drawing

ART 2
What you can do in this project:
• Explore art techniques, culture and history of art
• Learn artistic challenges in drawing, fiber arts and sculpting
• Develop graphic design techniques
Grades: 7-12
Resources: 08140, Advanced Visual Arts: Sketchbook Crossroads
08141, Advanced Visual Arts: Portfolio Pathways

ART LDR
Resource: 07597, Arts & Crafts – A Palette of Fun
Webpage: 4h.uwex.edu/onlinpro/artscrafts.cfm

ART YTH LDR

BASKETRY

BASKETRY LDR

BASKETRY YTH LDR

BLOCK PRINTING
What you can do in this project:
• Design and cut blocks from different materials
• Print designs on cloth and paper
• Create your own original designs
Grades: 5-12
Resource: 4H156, Block Printing Member Guide

BLOCK PRINTING LDR
Resource: CIR008, Block Printing Leader Guide
Webpage: 4h.uwex.edu/onlinpro/blockprinting.cfm

BLOCK PRINTING YTH LDR

CERAMICS

CERAMICS LDR

CERAMICS YTH LDR

COLLAGES

CREATIVE/CROSS STITCHERY

CREATIVE/CROSS STITCHERY LDR

CREATIVE/CROSS STITCHERY 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, oil and acrylics
- Mix colors
- Mat and frame your artwork

Grades: 3-12
Resource: 4H169, Drawing & Painting

DRAWING & PAINTING LDR
Webpage: 4h.uwex.edu/onlinpro/drawing.cfm

DRAWING & PAINTING YTH LDR

FOLK ARTS
What you can do in this project:
- Explore traditional folk arts
- Learn more from your family and community
- Learn storytelling
- Decorate eggs and make baskets

Grades: 5-12
Resource: NCR534, Folk Arts Leader Guide
Webpage: 4h.uwex.edu/onlinpro/folkarts.cfm

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

Grades: 3-12
Resource: 4H149, Adventures in Leathercraft Members Guide

LEATHERCRAFT LDR
Resource: CIR006, Adventures in Leathercraft Leaders Guide
Webpage: 4h.uwex.edu/onlinpro/leathercraft.cfm

LEATHERCRAFT YTH LDR

MACRAMÉ

METAL ENAMELING
What you can do in this project:
- Try enameling earrings, pins and other jewelry
- Learn to attach fasteners
- Create original designs and patterns

Grades: 5-12
Resource: 4H158, Metal Enameling Members Guide

METAL ENAMELING LDR
Resource: CIR009, Metal Enameling Leader Guide
Webpage: 4h.uwex.edu/onlinpro/metalenameling.cfm

METAL ENAMELING YTH LDR

NEEDLEPOINT

GLASSWORK

GLASSWORK LDR

GLASSWORK YTH LDR

JEWELLERY MAKING

JEWELLERY MAKING LDR

JEWELLERY MAKING YTH LDR

MOSAICS

ORNAMENTS

PAINT MAKING

PRINTMAKING

ROCK ART

SCULP TY CLAY

SOAP CARVING

SOAP MAKING

STRING/WIRE ART

STUFFED ANIMALS

TIE DYING

WEARABLE ART

WOOD ART

WATERCOLOR
PHOTOGRAPHY 1
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
Grades: 3-5
Resource: PC1, Focus on Photography

PHOTOGRAPHY 2
What you can do in this project:
• Learn about camera adjustments
• Learn about film speed, shutter speed and aperture
• Take silhouettes, candids, action shots and others
Grades: 6-8
Resource: PC2, Controlling the Image

PHOTOGRAPHY 3
What you can do in this project:
• 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
Grades: 9-12
Resource: PC3, Mastering Photography

PHOTOGRAPHY YTH LDR
Webpage: 4h.uwex.edu/onlinpro/photography.cfm

POVERTY

POSTERS
Grades: 3-12
Resource: 4H23, Say It With Posters

POSTERS LDR

POSTERS YTH LDR

POTTERY

POTTERY LDR

POTTERY YTH LDR

RUBBER STAMPING

RUBBER STAMPING LDR

RUBBER STAMPING YTH LDR

RUG HOOKING

RUG HOOKING LDR

RUG HOOKING YTH LDR

SCRAPBOOKING

STENCIL PAINTING

STENCIL PAINTING LDR

STENCIL PAINTING YTH LDR

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
Grades: 6-12
Resource: IS401, Action! Making Videos & Movies

WEAVING

WEAVING LDR

WEAVING YTH LDR

WOOD BURNING

WOOD BURNING LDR

WOOD BURNING YTH LDR

FAMILY, HOME & HEALTH

CHILD DEVELOPMENT 1
What you can do in this project:
• Find out how you grow and develop
• Learn about the development of babies and toddlers
• Learn how to make toys safe for small children
Grades: 3-4
Resource: 08075, On My Own

CHILD DEVELOPMENT 2
What you can do in this project:
• 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
• Check for safety hazards
Grades: 5-6
Resource: 08076, Growing With Others
CHILD DEVELOPMENT 3
What you can do in this project:
• 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
Grades: 7-10
Resource: 08077, Growing in Communities

HOME ENVIRONMENT 1
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
Grades: 3-5
Resource: 4H425, Exploring Your Home

HOME ENVIRONMENT 2
What you can do in this project:
• Become more involved with activities around the home
• Learn to handle home tasks and entertain guests
• Refinish wood furnishings and make other home items
Grades: 6-7
Resource: 4H426, Living With Others

HOME ENVIRONMENT 3
What you can do in this project:
• 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 and restore furniture
Grades: 8-9
Resource: 4H427, Where I Live

HOME ENVIRONMENT 4
What you can do in this project:
• Focus on the application of design fundamentals
• Learn about purchasing furnishings for the home
• Restore or make a heritage item
Grades: 10-12
Resource: 4H465, In My Home

HEALTH 1
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
Grades: 3-5
Resource: 08174, First Aid in Action

HEALTH 2
What you can do in this project:
• Identify your personal talent areas in health care
• Explore hygiene, nutrition and physical activities
• Share what you learn with others
Grades: 6-8
Resource: 08175, Staying Healthy

HEALTH 3
What you can do in this project:
• Design your own fitness plan
• Track your plan and review your progress
• Interview individuals in the health and fitness fields
Grades: 9-12
Resource: 08176, Keeping Fit

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
Grades: 5-12
Resource: NCR591, Walk in My Shoes Member Guide

INTERGENERATIONAL PROGRAMS LDR
Resource: NCR548, Walk in My Shoes Leader Guide
Webpage: 4h.uwex.edu/onlinpro/intergenerational.cfm

INTERGENERATIONAL PROGRAMS YTH LDR

SPORTS LDR

SPORTS YTH LDR
CONSUMER EDUCATION

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
Grades: 3-5
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
Grades: 6-9
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
Grades: 10-12
Resource: 08032, *Consumer Roadmap*

CONSUMER SAVVY LDR
Resource: 08033, *Consumer Savvy Helper’s Guide*
Webpage: [4h.uwex.edu/onlinpro/consumersavvy.cfm](http://4h.uwex.edu/onlinpro/consumersavvy.cfm)

CONSUMER SAVVY 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
Grades: 7-12
Resource: 08035, *Entrepreneurship: Be the E*

ENTREPRENEURSHIP LDR
Webpage: [4h.uwex.edu/onlinpro/entrepreneur.cfm](http://4h.uwex.edu/onlinpro/entrepreneur.cfm)

ENTREPRENEURSHIP YTH LDR

PERSONAL FINANCE 1
What you can do in this project:
• Learn money management skills
• Learn how to live on a budget
Grades: 6-8
Resource: 07710, *Money FUNdamentals*

PERSONAL FINANCE 2
What you can do in this project:
• 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
Grades: 9-12
Resource: 07711, *Money Moves*

PERSONAL FINANCE LDR
Webpage: [4h.uwex.edu/onlinpro/finance.cfm](http://4h.uwex.edu/onlinpro/finance.cfm)

PERSONAL FINANCE YTH LDR

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
Grades: 6-9
Resource: 08191, *Get in the Act! Take 1 (with CD)*

WORKFORCE READINESS LDR
Resource: 08192, *Get in the Act! Take 1 Helper’s Guide*
Webpage: [4h.uwex.edu/onlinpro/workforce.cfm](http://4h.uwex.edu/onlinpro/workforce.cfm)

WORKFORCE READINESS YTH LDR

FOODS AND NUTRITION

BREADS
BREADS LDR
BREADS YTH LDR
CAKE DECORATING
CAKE DECORATING LDR
CAKE DECORATING YTH LDR
CANDY MAKING
CANDY MAKING LDR
CANDY MAKING YTH LDR
FOOD PRESERVATION 1
What you can do in this project:
- Learn the basics of preserving food safely
- Use UW-Extension Safe Food Preservation Series
Grades: 6-12
Resources: B0430, Canning Fruits Safely
B1159, Canning Vegetables Safely
B2909, Making Jams, Jellies & Fruit Preserves
B3278, Freezing Fruits & Vegetables

FOOD PRESERVATION 2
What can I do in this project:
- Continue learning food preservation techniques
- Use UW-Extension Safe Food Preservation Series
Grades: 6-12
Resources: B2267, Homemade Pickles & Relishes
B2605, Tomatoes Tart & Tasty
B3345, Canning Meat, Wild Game, Poultry & Fish
B3570, Canning Salsa Safely

FOOD PRESERVATION LDR
Webpage: 4h.uwex.edu/onlinpro/foodsnutrition.cfm

FOOD PRESERVATION YTH LDR

FOODS & NUTRITION 1
What you can do in this project:
- Learn what is good to eat and how to fix simple foods
- Fix pizza, pancakes, fruit kabobs and granola bars
- Explore why calcium is important to our bodies
- Understand TV commercial messages about food
Grades: 3-4
Resource: 07144, Six Easy Bites

FOODS & NUTRITION 2
What you can do in this project:
- Make main dishes, e.g., meatballs, pasta and salads
- Learn to make basic muffins and biscuits
- Learn to change recipes
- Reduce fat content in recipes
- Discover how to store fruit and vegetables
Grades: 5-6
Resource: 07146, Tasty Tidbits

FOODS & NUTRITION 3
What you can do in this project:
- Learn to evaluate nutrition information and fad diets
- Develop your own exercise program
- Learn how to cook different cuts of meat
- Learn to divide large-quantity packages for family use
- Make baked chicken, breadsticks and stir-fried vegetables
Grades: 7-9
Resource: 07148, You’re the Chef

FOODS & NUTRITION 4
What you can do in this project:
- Learn how to make jelly, bake fish and marinate meat
- Conduct a food activity with young children
- Learn to divide recipes and make substitutions
- Plan menus on a budget
Grades: 10-12
Resource: 07150, Foodworks

FOODS & NUTRITION 5

CLOTHING AND TEXTILES

CLOTHING 1
What you can do in this project:
- Identify sewing tools and machine parts
- Thread a sewing machine and identify fabrics
- Select and purchase a pattern
- Sort clothes for laundry and remove stains
- Donate a sewing project
Grades: 3-5
Resources: 08060, Under Construction
07198, Let’s Sew! Beginner’s Sewing Guide

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
Grades: 6-8
Resource: 08061, Fashion Forward

CLOTHING 3
What you can do in this project:
- Use specialized sewing tools or equipment
- Combine patterns to create a design
- Create outdoor wear
- Design and embellish a garment
- Use a computer to print on fabric
Grades: 9-12
Resource: 08062, Refine Design

CLOTHING LDR
Resource: 08063, Sewing Expressions Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/clothing.cfm
CLOTHING 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

Grades: 3-12
Resource: CC1403, Crochet Made Easy

CROCHETING LDR
Webpage: 4h.uwex.edu/onlinpro/crocheting.cfm

CROCHETING 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

Grades: 3-12
Resource: CC1402, Knitting Made Easy

KNITTING LDR
Webpage: 4h.uwex.edu/onlinpro/knitting.cfm

KNITTING YTH LDR

WOOL SPINNING

MECHANICAL SCIENCES

BICYCLES – ENG AND TECH 1
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: 3-4
Resource: 08334, Bicycling for Fun

BICYCLING – ENG AND TECH 2
What you can do in this project:
• Choose a bike that’s right for you
• Practice bike maintenance
• Learn road rules

Grades: 4-5
Resource: 06848, Magic of Electricity

BICYCLING LDR
Resources: 08336, Bicycle Helper’s Guide
08399, Bicycle Fix It! (DVD)

Webpage: 4h.uwex.edu/onlinpro/bicycling.cfm

BICYCLING YTH LDR

COMPUTERS 1
What you can do in this project:
• Learn about hardware, software and components
• Explore how computers work
• Learn the various programs and their features
• Visit the project’s interactive website

Grades: 3-5
Resource: 08346, Newbie Know How

COMPUTERS 2
What you can do in this project:
• Build and repair a computer
• Identify the components and how they work together
• Learn to upgrade and create connections
• Install operating systems

Grades: 6-8
Resource: 08347, Inside the Box

COMPUTERS 3
What you can do in this project:
• Discover how to create and manage networks
• Make decisions about network management
• Explore security issues and troubleshooting

Grades: 9-12
Resource: 08348, Peer to Peer

COMPUTERS LDR
Resource: 08349, Teens Teaching Tech

Webpage: 4h.uwex.edu/onlinpro/computer.cfm

COMPUTERS YTH LDR

ELECTRICITY 1
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

Grades: 4-5
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

Grades: 6-7
Resource: 06849, Investigating Electricity

ELECTRICITY 3
What you can do in this project:
- Develop a basic electrical tool and supply kit
- Understand the symbols on wires and cables
- Locate your home wiring system

Grades: 8-9
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

Grades: 10-12
Resource: 06851, Entering Electronics

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

Grades: 3-5
Resource: 08186, Crank It Up!

SMALL ENGINES 2
What you can do in this project:
- Explore the internal parts of engines
- Learn about engine sizes and safety issues
- Explore different jobs related to small engines

Grades: 6-8
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

Grades: 9-12
Resource: 08188, Tune It Up!

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

Grades: 3-12
Resource: 4H424, Guidelines for Building Scale Models

SCALE MODELS LDR
Webpage: 4h.uwex.edu/onlinpro/scalemodels.cfm

SCALE MODELS YTH LDR

TRACTORS 1
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 and learn safety rules

Grades: 3-4 (little or no experience)
Resource: 4H961, Starting Up: Getting to Know Your Tractor

TRACTORS 2
What you can do in this project:
- Practice farm and tractor safety
- Understand the mechanics of engines
- Identify accessory equipment
- Learn the functions of different operational systems

Grades: 5-6 (little or no experience)
Resource: 4H962, Tractor Operations: Gearing Up for Safety

TRACTORS 3
What you can do in this project:
- Learn types of oil systems and fuel safety
- Learn how to hook on a PTO unit
- Learn tractor and machinery maintenance

Grades: 7-9 (some prior experience)
Resource: 4H963, Moving Out: Learning About Your Tractor & Farm Machinery
TRACTORS 4
What you can do in this project:
• Focus on safety and maintenance
• Identify and work with operational systems
Grades: 10-12 (some prior experience)
Resource: 4H964, Learning More: Learning About Agricultural Tractors & Equipment

TRACTORS LDR
Webpage: 4h.uwex.edu/onlinpro/tractors.cfm

TRACTORS YTH LDR

WOODWORKING 1
What you can do in this project:
• Learn safety practices when working with wood and tools
• Use various hand tools, e.g., hammer and saw
• Identify types of nails and wood
• Sand and paint a piece of wood
Grades: 3-4
Resource: 06875, Measuring Up

WOODWORKING 2
What you can do in this project:
• Identify functions of various tools
• Practice safety techniques
• Select a project to build, e.g., birdhouse or foot stool
• Use a screwdriver and combination square
Grades: 4-6
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 and build a laminated cutting board
• Compare different grades of plywood
Grades: 6-8
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
Grades: 9-12
Resource: 06878, Finishing Up

WOODWORKING LDR
Resource: 06879, Woodworking Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/wood.cfm

WOODWORKING YTH LDR

NATURAL RESOURCES & 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
Grades: 3-12
Resource: 4H444, Introduction to Adventures

ADVENTURES LDR
Resource: 4H443, 4-H Adventure Project
Webpage: 4h.uwex.edu/onlinpro/adventures.cfm

ADVENTURES YTH LDR

AQUATIC SCIENCE

ASTRONOMY

ASTRONOMY LDR

ASTRONOMY YTH LDR

BACKPACKING & HIKING 1
What you can do in this project:
• Plan a day hike, select items and 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
Grades: 3-5
Resource: 08043, Hiking Trails

BACKPACKING & HIKING 2
What you can do in this project:
• 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
Grades: 6-8
Resource: 08044, Camping Adventures
BACKPACKING & HIKING 3
What you can do in this project:
- 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

Grades: 9-12
Resource: 08045, Backpacking Expeditions

ENTOMOLOGY (INSECTS) 2
What you can do in this project:
- Learn how an insect protects itself
- Explore insect habitats
- Create an insect display
- Build an insect extractor
- Investigate entomology careers

Grades: 6-8
Resource: 06854, What’s Bugging You?
08392, Project Butterfly Wings Youth Guide

ENTOMOLOGY (INSECTS) 3
What you can do in this project:
- 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

Grades: 9-12
Resource: 06855, Dragons, Houses, & Other Flies

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

Grades: 3-12
Resource: 4H446, Bicycling
Webpage: 4h.uwex.edu/onlinpro/bicyclingnr.cfm

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

Grades: 3-12
Resource: 4H447, Canoeing
Webpage: 4h.uwex.edu/onlinpro/canoeing.cfm

CONSERVATION

EXPLORING YOUR ENVIRONMENT 1
What you can do in this project:
- Explore the four elements of life: sun, air, water and soil
- Use your senses to explore the environment
- Connect to the environment through plants and animals
- Learn how the environment is affected by pollution

Grades: 5-7
Resource: 08411, Earth’s Capacity

EXPLORING YOUR ENVIRONMENT 2
What you can do in this project:
- Explore wildlife habitats and tracking
- Learn about groundwater
- Research pollination and how it works

Grades: 8-10

EXPLORING YOUR ENVIRONMENT 3
What you can do in this project:
- 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

Grades: 11-12
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
Webpage: 4h.uwex.edu/onlinpro/environment.cfm

EXPLORING YOUR ENVIRONMENT YTH LDR

FISHING 1
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
Grades: 3-5
Resource: 07598, Take the Bait

FISHING 2
What you can do in this project:
- 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
Grades: 6-8
Resource: 07599, Reel in the Fun

FISHING 3
What you can do in this project:
- Learn to reassemble a fishing reel
- Make artificial flies and lures
- Modify fishing equipment
- Investigate fishing careers
Grades: 9-12
Resource: 07600, Cast into the Future

FORESTRY 1
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
Grades: 3-5
Resource: 08038, Follow the Path

FORESTRY 2
What you can do in this project:
- Diagram a leaf
- Understand major forest changes and their impact
- Select urban tree planting sites
Grades: 6-8
Resource: 08039, Reach for the Canopy

FORESTRY 3
What you can do in this project:
- Recognize different tree fruits
- Create a community forest map
- Identify forest biomes by continent
- Identify an unknown tree using a tree key
Grades: 9-12
Resource: 08040, Explore the Deep Woods

FORESTRY LDR
Resource: 08041, Forestry Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/forestry.cfm

FORESTRY YTH LDR

GEOLOGY

GEOLOGY LDR

GEOLOGY YTH LDR

MAPLE SYRUP

RECYCLING
What you can do in this project:
- Learn about the impact of solid waste on the environment
- Learn to reduce, reuse and recycle
Grades: 3-12
Resource: 4H362, Recycling for Reuse

RECYCLING LDR
Webpage: 4h.uwex.edu/onlinpro/recycling.cfm

RECYCLING YTH LDR

REPTILES

TAXIDERMY

WATER
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: 3-12
Resource: 4H855, Give Water A Hand – Action Guide
WATER LDR
Resource: 4H850, Give Water A Hand Leader Guide
Webpage: 4h.uwex.edu/onlinpro/water.cfm

WATER YTH LDR
WEATHER
WEATHER LDR
WEATHER YTH LDR

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
Grades: 3-12
Resource: 4H392, Wildflowers
Webpage: 4h.uwex.edu/onlinpro/wildflowers.cfm

WILDLIFE
WILDLIFE LDR
WILDLIFE YTH LDR
WILDLIFE HABITAT

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
Grades: 3-12
Resource: 4H448, Winter Travel
Webpage: 4h.uwex.edu/onlinpro/wintertravel.cfm

SHOOTING SPORTS EDUCATION

SHOOTING SPORTS LDR
Resource: Each Shooting Sports Leader should attend a Certification Training to receive the WI Shooting Sports Basic 4-H Guidelines. For more information see webpage.
Webpage: 4h.uwex.edu/onlinpro/shooting/index.cfm

SHOOTING SPORTS YTH LDR

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 PISTOL LDR
Resource: Each Pistol Leader should attend a Certification Training to receive the Pistol Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see webpage.
Webpage: 4h.uwex.edu/onlinpro/shooting/index.cfm

AIR PISTOL YTH LDR

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

AIR RIFLE LDR
Resource: Each Air Rifle Leader should attend a Certification Training to receive the Air Rifle Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see webpage.
Webpage: 4h.uwex.edu/onlinpro/shooting/index.cfm

AIR RIFLE YTH LDR

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
Resource: 751, Archery Member Record Book

ARCHERY LDR
Resource: Each Archery Leader should attend a Certification Training to receive the Archery Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see webpage.
Webpage: 4h.uwex.edu/onlinpro/shooting/index.cfm

ARCHERY YTH LDR
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

HUNTING LDR

HUNTING YTH LDR

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 webpage.
Webpage: 4h.uwex.edu/onlinpro/shooting/index.cfm

MUZZLELOADING YTH LDR

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 webpage.
Webpage: 4h.uwex.edu/onlinpro/shooting/index.cfm

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 webpage.
Webpage: 4h.uwex.edu/onlinpro/shooting/index.cfm

SHOTGUN YTH LDR

PLANT & SOIL SCIENCES

CORN (CROPS 1)
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
Ages: Only 12 years old and above can shoot powder burning guns

CORN LDR
Resource: Each Corn Leader should attend a Certification Training to receive the Corn Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see webpage.
Webpage: 4h.uwex.edu/onlinpro/corn.cfm

CORN YTH LDR

FORAGE (CROPS 2)
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
Ages: Only 12 years old and above can shoot powder burning guns

FORAGE LDR
Resource: Each Forage Leader should attend a Certification Training to receive the Forage Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see webpage.
Webpage: 4h.uwex.edu/onlinpro/corn.cfm

FORAGE YTH LDR

SMALL GRAINS (CROPS 3)
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
Ages: Only 12 years old and above can shoot powder burning guns

SMALL GRAINS LDR
Resource: Each Small Grains Leader should attend a Certification Training to receive the Small Grains Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see webpage.
Webpage: 4h.uwex.edu/onlinpro/smallgrains.cfm

SMALL GRAINS YTH LDR

SOYBEANS (CROPS 4)

WEED MANAGEMENT (CROPS 5)
FLOWERS 1
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

Grades: 3-5
Resources: 07162, Gardening: See Them Sprout
4H1301A, Forcing Spring Flowering Bulbs
A2935, Evaluating & Judging Flowers & Indoor Plants

FLOWERS LDR
Resource: 07166, Gardening Helper's Guide
Webpage: 4h.uwex.edu/onlinpro/flowers.cfm

FLOWERS YTH LDR

HERBS
HERBS LDR
HERBS YTH LDR

HOME GROUNDS 1
What you can do in this project:
- Learn about seeding a lawn
- Study proper lawn care and maintenance
- Explore fertilization and pest management techniques

Grades: 3-5
Resource: 4H321, 4-H Lawn Care

HOME GROUNDS 2
What you can do in this project:
- Learn the importance of planting new trees and shrubs
- Explore variety selection and appropriate placement
- Learn basic maintenance: pruning and fertilization

Grades: 6-8
Resource: 07163, Gardening: Let's Get Growing

HOME GROUNDS 3
What you can do in this project:
- Explore landscape planning
- Make a plan and put it on paper
- Select, place and plant trees and shrubs
- Maintain your home grounds

Grades: 9-12
Resource: G1923, Planning & Designing Your Home Landscape

HOUSE PLANTS 1
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
- Prepare house plants for exhibit

Grades: 3-5
Resources: 07162, Gardening: See Them Sprout
4H328, Propagating & Growing House Plants

HOUSE PLANTS 2
What you can do in this project:
- Learn about plant seeds and soil
- Select and start new plants and grow transplants
- Plant a terrarium
- Examine plants for insects and diseases

Grades: 6-8
Resource: 07163, Gardening: Let's Get Growing

FRUITS 1
What you can do in this project:
- Produce fruits from apples to berries
- Select the best fruit cultivar for your home garden

Grades: 3-12
Resources: A1597, Growing Strawberries in Wisconsin
A1610, Growing Raspberries in Wisconsin
A1960, Growing Currants, Gooseberries, & Elderberries in Wisconsin

FRUITS 2
What can I do in this project:
- Produce fruits such as pears and grapes
- Learn about different varieties of cultivars

Resources: A1656, Growing Grapes in Wisconsin
A2072, Growing Pears in Wisconsin

FRUITS LDR
Webpage: 4h.uwex.edu/onlinpro/fruits.cfm

FRUITS YTH LDR
HOUSE PLANTS 3
What you can do in this project:
- Take a tour of a horticulture business
- Design a plant experiment
- Teach others how to grow house plants
- Compare different fertilizers: organic and chemical

Grades: 9-12
Resource: 07164, Gardening: Take Your Pick

HOUSE PLANTS LDR
Resource: 07166, Gardening Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/houseplants.cfm

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.

Grades: 3-12
Resources: 4H330, Plant Crafts
4H453, Plant Crafts Supplement
Webpage: 4h.uwex.edu/onlinpro/plantcrafts.cfm

VEGETABLES 1
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

Grades: 3-5
Resources: 07162, Gardening: See Them Sprout
4H395, Organically Grown – Handbook
4H409, Nature’s Herbs
A3306, Exhibiting & Judging Vegetables

VEGETABLES 2
What you can do in this project:
- Learn about plant needs and soil testing
- Start new plants and grow transplants
- Build a compost pile and use mulches

Grades: 6-8
Resource: 07163, Gardening: Let’s Get Growing

VEGETABLES 3
What you can do in this project:
- Grow plants in a cold frame
- Make a site analysis and landscape plan
- Compare organic and chemical fertilizers
- Research various insect control methods

Grades: 9-12
Resource: 07164, Gardening: Take Your Pick

VEGETABLES LDR
Resource: 07166, Gardening Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/vegetables.cfm

VEGETABLES LDR

VEGETABLES YTH LDR

STEM (Science, Technology, Engineering & Math)

AEROSPACE 1
What you can do in this project:
- Build an introductory level rocket
- Compare birds and airplanes
- Make a space helmet

Resource: 06842, Pre-Flight

AEROSPACE 2
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

Grades: 3-5
Resource: 06843, Lift Off

AEROSPACE 3
What you can do in this project:
- Build, exhibit and launch model rockets
- Test a paper hang glider
- Make a flight simulator
- Demonstrate why rockets fly
- Organize a kite-flying contest

Grades: 6-8
Resource: 06844, Reaching New Heights

AEROSPACE 4
What you can do in this project:
- 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

Grades: 9-12
Resource: 06845, Pilot in Command
AEROSPACE LDR
Resource: 06846, Aerospace Adventures Helper’s Guide
Webpage: 4h.uwex.edu/onlinpro/aerospace.cfm

AEROSPACE YTH LDR

GEOSPATIAL 1
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
Grades: 4-12
Resource: CD8358, Exploring Spaces, Going Places CD
(“Getting Out” section)

GEOSPATIAL 2
What you can do in this project:
- Learn how to collect data
- Combine data with geographical positions
- Make maps of home, neighborhood and community
Grades: 4-12
Resource: CD8358, Exploring Spaces, Going Places CD
(“On the Trail” section)

GEOSPATIAL 3
What you can do in this project:
- Use multi-layered maps to attempt to solve problems
- Find ways to reduce traffic congestion
- Pinpoint pollution sources
Grades: 4-12
Resource: CD8358, Exploring Spaces, Going Places CD
(“Reaching Your Destination” section)

GEOSPATIAL LDR
Webpage: 4h.uwex.edu/onlinpro/geospatial.cfm

GEOSPATIAL YTH LDR

ROBOTICS 1
What you can do in this project:
- Explore and learn about robots arms
- Learn about robot form, function and design
- Build robots from everyday items
Resource: 08431, Junk Drawer Robotics Track Level 1: Give Robots a Hand
08435, 4-H Robotics Youth Notebook
08430, Virtual Robotics Track DVD

ROBOTICS 2
What you can do in this project:
- Explore and learn about robots that move with legs, wheels and underwater.
- Learn about basic electrical power and motors, and gear system
- Build robots from everyday items
Resource: 08432, Junk Drawer Robotics Track Level 2: Robots on the Move
08435, 4-H Robotics Youth Notebook
08430, Virtual Robotics Track DVD

ROBOTICS 3
What you can do in this project:
- Explore and learn about robots sensors and analog and digital systems
- Build basic circuits
- Study basic elements of programming and instruction
Resource: 08433, Junk Drawer Robotics Track Level 3: Mechatronics
08435, 4-H Robotics Youth Notebook
08430, Virtual Robotics Track DVD

ROBOTICS LDR
Resources: 08434, Robotics Platforms Track DVD
Webpage: 4h.uwex.edu/onlinpro/robotics.cfm

ROBOTICS YTH LDR

INTERNATIONAL PROGRAMS

INTERNATIONAL
What you can do in this project:
- Explore the world around you through maps
- Track weather in various parts of the world
- Make your family tree by talking with relatives
- Explore where your ancestors came from
Grades: 3-12
Resource: 4H812, And My World

INTERNATIONAL LDR
Resource: 4H812, And My World
Webpage: 4h.uwex.edu/onlinpro/international.cfm

INTERNATIONAL YTH LDR