

2017-2018 Project Guide

This is your guide . . . 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. Youth have the opportunity to enter work from their project at the Winnebago County Fair in August to show off what they have learned throughout the year.

And remember, you'll learn more than "subject matter" as you complete your projects. You'll learn many "life" skills that you'll use every day of your life, such as, understanding yourself, communicating better, solving problems, making decisions, and working with others. Good luck in your project selections. Have a great 4-H year!

How 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.

You may also want to look at the Winnebago County Junior Fair Book (<http://www.winnebagoountyfaironline.com/>) for ideas on what projects you are interested in. Youth can only bring exhibits in departments and/or divisions that correspond to the Projects they are signed up in on 4HOnline. Youth have until January 31 to make their final project selections in 4HOnline.

How many projects should I sign up in?

- Pick a few projects/areas that you would like to spend a lot of time and effort in
- Pick a few more projects that you would like to explore, but won't spend as much time
- Consider if the projects you are signing up for are very similar (all nature-related) or very different. This may affect how many projects you want to commit to/explore. Find a balance that works for you and your family.
- Youth in K5-2nd grade ONLY have the option to sign up for the Cloverbud Project
- It is recommended that youth in grades 3rd – 5th sign up for the Exploring project to learn about a variety of project areas. They may also want to sign up in 1-2 other projects they already have a strong interest in.

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

After deciding what projects you are interested in, you will select your projects in 4HOnline (<https://wi.4honline.com/>), either during enrollment or at any time before January 31.

Tips for reading this guide:

- Projects in this guide are grouped by category. When you select your projects in 4HOnline, they will be listed alphabetically. The project titles you see in 4HOnline will match the titles in ALL CAPS in this guide. For example: **Youth Leadership** is a category and **AMBASSADORS** is a project.
- Under many of the projects in this guide you will see more information about levels of the project and resources (or literature) to help guide you in your learning. This is only for your information – you will not need to select project levels in 4HOnline.
- Many projects have grade recommendations. These are only recommendations. (with the exception of Cloverbuds)
- After selecting a project, 4HOnline allows you to select project literature. This is just a reference for you about what literature is available. You may checkout literature from the UW-Extension Office or purchase literature here:
 - **Shop 4-H**
<https://shop4-h.org/collections/curriculum>
(formerly the 4-H Mall or National 4-H Supply)
 - "The Learning Store" UW-Extension
<https://learningstore.uwex.edu/>
- The Wisconsin 4-H Website also provides project pages at <http://fyi.uwex.edu/wi4hprojects>. 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.



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Youth Leadership

<http://fyi.uwex.edu/wi4hprojects/community-involvement/youth-leadership/>

AMBASSADORS

AMBASSADORS YTH LDR AMBASSADORS LDR

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, 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, Grades 6-8*

Youth Leadership 3

What you can do in this project:

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

Grades: 9-12

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

YOUTH LEADERSHIP YTH LDR YOUTH LEADERSHIP LDR

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



Younger Members

<http://fyi.uwex.edu/wi4hprojects/younger-members/>

CLOVERBUDS

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 YTH LDR

CLOVERBUDS LDR

Resources: 05560, *4-H Discovery Program for 6-8 Yr. Olds*

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 YTH LDR

EXPLORING LDR

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



Service Learning & Citizenship

<http://fyi.uwex.edu/wi4hprojects/community-involvement/>

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 YTH LDR

CITIZENSHIP LDR

Resource: 08154, *Citizenship Guide's Handbook*

HISTORY & HERITAGE

HISTORY & HERITAGE LDR

HISTORY & HERITAGE 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 YTH LDR

LATINO CULTURAL ARTS LDR

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

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 YTH LDR

SERVICE LEARNING LDR

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



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 YTH LDR

SELF-DETERMINED LDR



Animal Sciences

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

BEEF

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 YTH LDR

BEEF LDR

Resources: 08146, *Beef Helper's Guide*

117R, *Beef Resource Handbook*

CAGE BIRDS

CAGE BIRDS YTH LDR

CAGE BIRDS LDR

CATS

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 YTH LDR

CATS LDR

Resource: 08151, *Cat Helper's Guide*

CAVIES

CAVIES YTH LDR

CAVIES LDR

DAIRY

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 LEADER, Lifetime Dairy Record*

Dairy 2

What you can do in this project:

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

Grades: 6-8

Resources: 08162, *Mooving Ahead*

CANADA2, *Preparing to Lead MPA, Managerial Project Agreement*

Dairy 3

What you can do in this project:

- Practice mastitis detections
- Learn to balance rations
- Practice pregnancy detection & 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*

HMR, *WI 4-H Dairy Heifer Mgmt. Record*

DAIRY YTH LDR

DAIRY LDR

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

DOGS

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*

Dogs 2

What you can do in this project:

- Explore dog health and nutrition
- Discover genetic problems & 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 YTH LDR

DOGS LDR

Resources: 08169, *Dog Helper's Guide*
4H458, *4-H Dog Judging Guidelines*

EXOTIC ANIMALS

EXOTIC ANIMALS YTH LDR

EXOTIC ANIMALS LDR

DAIRY GOAT

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 & linear appraisal
- Understand bio-security & prevention measures
- Gain leadership, explore career opportunities

Grades: 9-12

Resource: 08354, *Showing the Way*

DAIRY GOAT YTH LDR

DAIRY GOAT LDR

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

MEAT GOAT

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

Resource: 07910, *Get Growing with Meat Goats*

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 YTH LDR

MEAT GOAT LDR

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

PYGMY GOAT

PYGMY GOAT YTH LDR

PYGMY GOAT LDR

HORSE

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 YTH LDR

HORSE LDR

Resources: 08058, *Horse Helper's Guide*

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 YTH LDR

CLOTHES HORSE LDR

Resource: 4H360, *4-H Clothes Horse Activity Guide*

HORSELESS HORSE

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*

HORSELESS HORSE YTH LDR

HORSELESS HORSE LDR

Resources: 08058, *Horse Helper's Guide*

MODEL HORSES

MODEL HORSES YTH LDR

MODEL HORSES LDR

PETS

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 YTH LDR

PETS LDR

Resource: 06362, *Pet Helper's Guide*

POULTRY

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 YTH LDR

POULTRY LDR

Resource: 06366, *Poultry Helper's Guide*

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: 3-12

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

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 Hoppening?*

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 & rabbit registration

Grades: 9-12

Resource: 08082, *All Ears*

RABBITS YTH LDR

RABBITS LDR

Resource: 08083, *Rabbit Helper's Guide*

SHEEP

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 YTH LDR

SHEEP LDR

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

SWINE

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 YTH LDR

SWINE LDR

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

VETERINARY SCIENCE

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 & 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 disease 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 YTH LDR VETERINARY SCIENCE LDR

Resources: 08051, *Veterinary Science Helper's Guide*
4H192, *Veterinary Science*
4H323, *The Normal Animal - Leader's Guide*



Communication Arts

<http://fyi.uwex.edu/wi4hprojects/arts-communication/>

COMMUNICATIONS

Communications 1

What you can do in this project:

- Engage in non-verbal, verbal & 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 YTH LDR 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*

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 YTH LDR CREATIVE WRITING LDR

DEMONSTRATIONS

DEMONSTRATIONS YTH LDR DEMONSTRATIONS LDR

SIGN LANGUAGE

SIGN LANGUAGE YTH LDR SIGN LANGUAGE 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 YTH LDR SPEAKING LDR



Performing Arts

<http://fyi.uwex.edu/wi4hprojects/arts-communication/theatre-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 YTH LDR CLOWNING LDR

DANCE

DANCE YTH LDR DANCE LDR

JUGGLING

JUGGLING YTH LDR JUGGLING 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
- Teach others and make instruments

Grades: 3-12

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

MUSIC YTH LDR MUSIC LDR

THEATRE ARTS

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

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 & bring it to life

Grades: 9-12

THEATRE ARTS YTH LDR THEATRE ARTS LDR

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



Visual Arts

<http://fyi.uwex.edu/wi4hprojects/arts-communication/>

ART 1

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

Grades: 3-6

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 YTH LDR ART 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 YTH LDR BLOCK PRINTING LDR

Resource: CIR008, *Block Printing Leader Guide*

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 YTH LDR DRAWING & PAINTING 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

FOLK ARTS YTH LDR

FOLK ARTS LDR

Resource: NCR534, *Folk Arts Leader Guide*

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

LEATHERCRAFT YTH LDR

LEATHERCRAFT LDR

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 YTH LDR

METAL ENAMELING LDR

Resource: CIR009, *Metal Enameling Leader Guide*

NEEDLEPOINT

NEEDLEPOINT YTH LDR

NEEDLEPOINT LDR

PHOTOGRAPHY

Photography 1

What you can do in this project:

- Explore the camera & learn to use it properly
- Learn the basics of lighting & 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 & aperture
- Take silhouettes, candid, action shots & 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 & studio lighting
- Experiment with special effect photos
- Take still life photos and portraits

Grades: 9-12

Resource: PC3, *Mastering Photography*

PHOTOGRAPHY YTH LDR

PHOTOGRAPHY 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*

VIDEOGRAPHY YTH LDR

VIDEOGRAPHY LDR



Family, Home & Health

<http://fyi.uwex.edu/wi4hprojects/family-home-health/>

CHILD DEVELOPMENT

Child Development 1

What you can do in this project:

- Find out how you grow and develop
- Learn about the development of babies & 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*

CHILD DEVELOPMENT YTH LDR

CHILD DEVELOPMENT LDR

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

HOME ENVIRONMENT

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 & proportion in home design
- Use 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 application of design fundamentals
- Learn about purchasing furnishings for home
- Restore or make a heritage item

Grades: 10-12

Resource: 4H465, *In My Home*

HOME ENVIRONMENT YTH LDR

HOME ENVIRONMENT LDR

HEALTH

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*

HEALTH YTH LDR

HEALTH 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

Grades: 5-12

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

INTERGENERATIONAL PROGRAMS YTH LDR

INTERGENERATIONAL PROGRAMS LDR

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



Consumer Education

<http://fyi.uwex.edu/wi4hprojects/family-home-health/>

CONSUMER SAVVY

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 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 YTH LDR CONSUMER SAVVY LDR

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

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 YTH LDR ENTREPRENEURSHIP LDR

Resource: 08036, *Entrepreneurship Helper's Guide*

PERSONAL FINANCE

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 & needs, values & 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 YTH LDR PERSONAL FINANCE LDR

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

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 YTH LDR WORKFORCE READINESS LDR

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



Foods and Nutrition

<http://fyi.uwex.edu/wi4hprojects/family-home-health/foods-nutrition/>

BREADS

BREADS YTH LDR BREADS LDR

CAKE DECORATING

CAKE DECORATING YTH LDR CAKE DECORATING LDR

FOOD PRESERVATION

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-Exten. 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 YTH LDR FOOD PRESERVATION LDR

FOODS & NUTRITION

Foods and Nutrition 1

What you can do in this project:

- Learn what is good to eat & 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 and 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 and Nutrition 3

What you can do in this project:

- Learn to evaluate nutrition information & fad diets
- Develop your own exercise program
- Learn how to cook different cuts of meat
- Learn to divide large-quantity pkgs for family use
- Make baked chicken, breadsticks & stir-fried veggies

Grades: 7-9

Resource: 07148, *You're the Chef*

Foods and Nutrition 4

What you can do in this project:

- Learn how to make jelly, bake fish & 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 YTH LDR

FOODS & NUTRITION LDR

Resource: 07730, *Foods Curriculum Helper's Guide*

MICROWAVE

MICROWAVE YTH LDR

MICROWAVE LDR



Clothing and Textiles

<http://fyi.uwex.edu/wi4hprojects/family-home-health/>

CLOTHING

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*

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 YTH LDR

CLOTHING LDR

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

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 YTH LDR

CROCHETING 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 YTH LDR

KNITTING LDR

QUILTING

QUILTING YTH LDR

QUILTING LDR



Mechanical Sciences

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

AUTOMOTIVE

AUTOMOTIVE YTH LDR AUTOMOTIVE LDR

BICYCLES – ENG AND TECH

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*

Bicycles – 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: 4-6

Resource: 08335, *Wheels in Motion*

BICYCLING YTH LDR

BICYCLING LDR

Resources: 08336, *Bicycle Helper's Guide*
08399, *Bicycle Fix It! (DVD)*

COMPUTERS

Computers 1

What you can do in this project:

- Learn about hardware, software & 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 & 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 YTH LDR

COMPUTERS LDR

Resource: 08349, *Teens Teaching Tech*

ELECTRICITY

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 & devices
- Learn how to solder & prepare parts for assembly
- Assemble a circuit using a transistor

Grades: 10-12

Resource: 06851, *Entering Electronics*

ELECTRICITY YTH LDR

ELECTRICITY LDR

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

LEGOS

LEGOS YTH LDR

LEGOS LDR

MODEL ROCKETRY

MODEL ROCKETRY YTH LDR

MODEL ROCKETRY LDR

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 YTH LDR SCALE MODELS LDR

SMALL ENGINES

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 & regulations in using small engines

Grades: 9-12

Resource: 08188, *Tune It Up!*

SMALL ENGINES YTH LDR SMALL ENGINES LDR

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

TRACTORS

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 & engine cooling systems
- Research different safety features & 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 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 YTH LDR

TRACTORS LDR

WELDING

WELDING YTH LDR

WELDING LDR

WOODWORKING

Woodworking 1

What you can do in this project:

- Learn safety practices for working w/ wood & 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, (birdhouse, 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 & 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 YTH LDR

WOODWORKING LDR

Resource: 06879, *Woodworking Helper's Guide*



Natural Resources and Environmental Education

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

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 YTH LDR

ADVENTURES LDR

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

ASTRONOMY

ASTRONOMY YTH LDR

ASTRONOMY LDR

BACKPACKING & HIKING

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
- 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*

BACKPACKING & HIKING YTH LDR

BACKPACKING & HIKING LDR

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

BEES

BEES YTH LDR

BEES LDR

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*

BICYCLING – ENVIRON ED YTH LDR

BICYCLING – ENVIRON ED LDR

BIRDS

BIRDS YTH LDR

BIRDS LDR

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*

CANOEING YTH LDR

CANOEING LDR

ENTOMOLOGY (INSECTS)

Entomology 1

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 how insects communicate and move

Grades: 3-5

Resource: 08392, *Project Butterfly Wings Youth Guide*

Entomology 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: 08392, *Project Butterfly Wings Youth Guide*

Entomology 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

ENTOMOLOGY (INSECTS) YTH LDR

ENTOMOLOGY (INSECTS) LDR

Resource: 08393, *Project Butterfly Wings Facilitator Guide*

EXPLORING YOUR ENVIRONMENT

Exploring Your Environment 1

What you can do in this project:

- Explore the elements of life: sun, air, water and soil
- Use your senses to explore the environment
- Connect to the environment through plants & 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 YTH LDR

EXPLORING YOUR ENVIRONMENT LDR

Resources: 08412, *Exploring Your Environment Facilitator Guide*

PUB-CE-456, *Education Connection*

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

FISHING

Fishing 1

What you can do in this project:

- Identify types of tackle
- Organize a tackle box
- Identify different types of bait & 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*

FISHING YTH LDR

FISHING LDR

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

FORESTRY

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:

- Learn how trees move water from soil to canopy
- 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 YTH LDR

FORESTRY LDR

Resource: 08041, *Forestry Helper's Guide*

GEOLOGY

GEOLOGY YTH LDR

GEOLOGY LDR

MAPLE SYRUP

MAPLE SYRUP YTH LDR

MAPLE SYRUP LDR

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 YTH LDR

RECYCLING LDR

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 YTH LDR

WATER LDR

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

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*

WILDFLOWERS YTH LDR

WILDFLOWERS LDR

WILDLIFE

WILDLIFE YTH LDR

WILDLIFE LDR

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*

WINTER TRAVEL YTH LDR

WINTER TRAVEL LDR



Shooting Sports Education

<http://fyi.uwex.edu/wi4hshootingssports/>

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 YTH LDR

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 Shooting Sports webpage.

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 YTH LDR

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*.

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

ARCHERY YTH LDR

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 Shooting Sports webpage.

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 YTH LDR

HUNTING 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 YTH LDR

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 Shooting Sports webpage.

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

PISTOL YTH LDR (smallbore .22)

PISTOL LDR (smallbore .22)

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 Shooting Sports webpage.

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

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 Shooting Sports webpage.

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

SHOTGUN YTH LDR

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 Shooting Sports webpage.



Plant & Soil Sciences

<http://fyi.uwex.edu/wi4hprojects/plant-soil-sciences/>

CROPS

Crops 1 (Corn)

What you can do in this project:

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

Grades: 3-12

Resources: 4H355, *4-H Corn Project Manual*

4H440, *Marketing Your 4-H Crops*

4H441, *Is Direct Marketing for My Project?*

Crops 2 (Forage)

What you can do in this project:

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

Grades: 3-12

Resources: 4H349, *Pest Scouting Alfalfa*

4H440, *Marketing Your 4-H Crops*

4H441, *Is Direct Marketing for My Project?*

Crops 3 (Small Grains)

What you can do in this project:

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

Grades: 3-12

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

4H440, *Marketing Your 4-H Crops*

4H441, *Is Direct Marketing for My Project?*

CROPS YTH LDR
CROPS LDR

FLOWERS

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 2

What you can do in this project:

- 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

Grades: 6-8

Resource: 07163, *Gardening: Let's Get Growing*

Flowers 3

What you can do in this project:

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

Grades: 9-12

Resource: 07164, *Gardening: Take Your Pick*

FLOWERS YTH LDR

FLOWERS LDR

Resource: 4H1041W, *Gardening Helper's Guide*

FRUITS

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 you can 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 YTH LDR
FRUITS LDR

HOME GROUNDS

Home Grounds 1

What you can do in this project:

- Learn about seeding a lawn
- Study proper lawn care and maintenance
- Explore fertilization & 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 & shrubs
- Explore variety selection & appropriate placement
- Learn basic maintenance: pruning & fertilization

Grades: 6-8

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

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*

HOME GROUNDS YTH LDR

HOME GROUNDS LDR

HOUSE PLANTS

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*

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 YTH LDR

HOUSE PLANTS LDR

Resource: 4H1041W, *Gardening Helper's Guide*

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*

PLANT CRAFTS YTH LDR

PLANT CRAFTS LDR

VEGETABLES

Vegetables 1

What you can do in this project:

- Identify plant parts and their functions
- Explore germination & 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 YTH LDR

VEGETABLES LDR

Resource: 4H1041W, *Gardening Helper's Guide*



STEM (Science, Technology, Engineering & Math)

<http://fyi.uwex.edu/wi4hprojects/stem-science-technology-engineering-math/>

STEM

STEM YTH LDR

STEM LDR

AEROSPACE

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 YTH LDR

AEROSPACE LDR

Resource: 06846, *Aerospace Adventures Helper's Guide*

GEOSPATIAL

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 YTH LDR

GEOSPATIAL LDR

ROBOTICS

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

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

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

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

ROBOTICS YTH LDR

ROBOTICS LDR

WIND ENERGY

Resource: 08383, *The Power of the Wind Youth Guide*

WIND ENERGY YTH LDR

WIND ENERGY LDR

Resource: 08384, *The Power of the Wind Facilitator Guide*



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

INTERNATIONAL YTH LDR

INTERNATIONAL LDR

