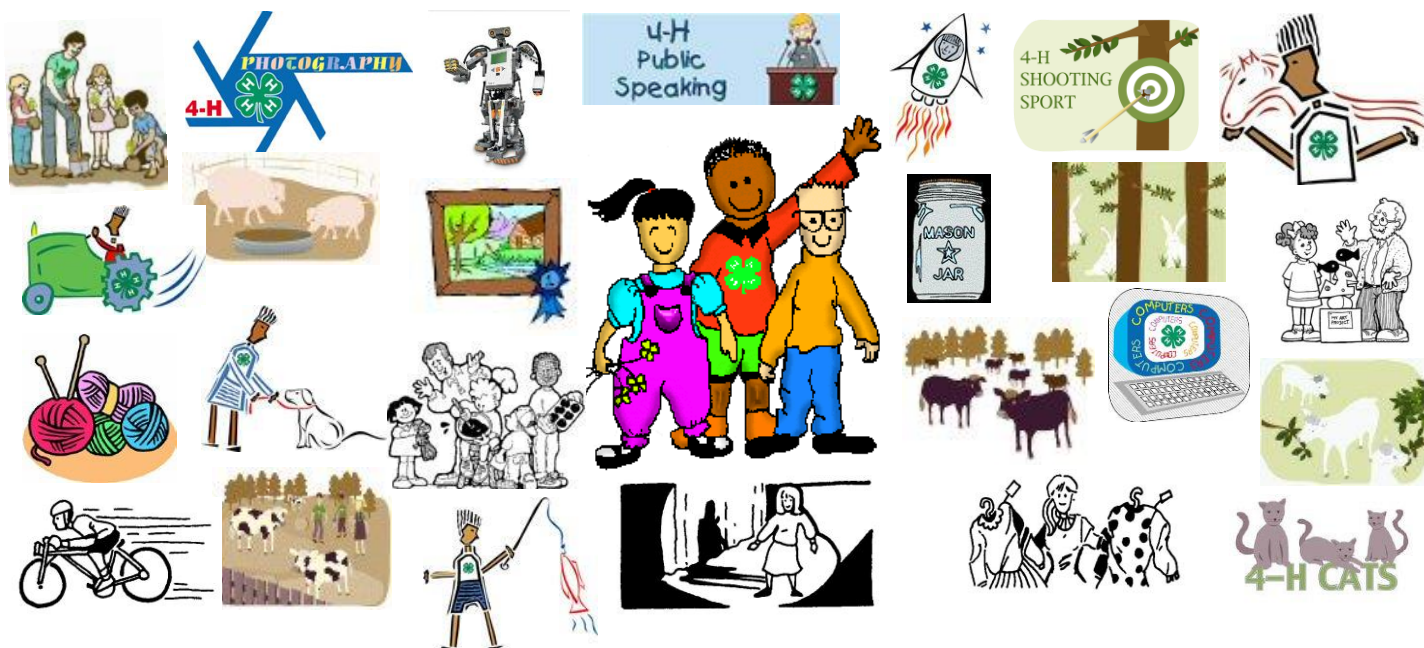


2019-2020

Columbia County 4-H Project Guide



Columbia Co. 4-H Enrollment Deadlines:
Re-Enrolling 4-H members: November 30, 2019
New Enrolling 4-H members: March 1, 2020
Individuals who meet the above deadlines are eligible to exhibit as a 4-H member in the Junior Division at the 2020 Columbia County Fair.

Beginning September 6, 2019, re-enroll / enroll at <http://4honline.com>

2019-2020 Columbia County 4-H

4-H Youth Enrollment/Membership:

1. Members enrolled in the Cloverbud Project: Youth in 5 year old kindergarten, first and second grades may only enroll in the Cloverbud Project. The Cloverbud project is not competitive. Cloverbud record books are encouraged but not required. Cloverbud project members are encouraged to participate in age appropriate club and county activities and may vote.
2. 4-H has open enrollment. Youth may enroll at any time of the year; however, re-enrollment in 4HOnline must be completed by November 30 to be eligible to exhibit as a 4-H member in the Junior Division at the current year's Columbia County Fair. New Members must enroll in 4HOnline by March 1 to be eligible to exhibit as a 4-H member in the Junior Division at the current year's Columbia County Fair.
3. Members may also add or drop projects until March 1st. Members need to inform their General Leader and the Extension Office if they wish to add or drop specific projects.
4. The deadline for Columbia County 4-H members to switch from one Columbia County 4-H Club to another Columbia County 4-H Club is May 1 with notification by the family to the Extension Office and the General Leaders of both 4-H Clubs.
5. A member assessment of \$5.00 is paid by each Columbia County 4-H member to the Columbia County 4-H Leader's Association. Each club establishes a policy for paying the member assessment. (\$1.50 supports the Wisconsin 4-H Foundation and \$3.50 supports county 4-H programming.)
6. Columbia County 4-H members must be enrolled in a specific project (or related project) in order to participate in project related competitions and contests. Non 4-H members may participate in educational activities if they are required in order to show at the Columbia County Junior Fair. Clubs and county project teams may offer community-wide invitational events. Non 4-H members participate in camping programs, robotics, county Cloverbud activities, and other county activities.

Taken from pages 1-2 of the Columbia County 4-H Leaders' Association Standing Rules 1.24.19

Parents/Guardians Responsibilities:

In addition to annually helping youth re-enroll / enroll in 4-H, parents / guardians are responsible for a number of other things. According to current Wisconsin 4-H Youth Development Policies,

Parents and guardians are expected to behave in ways that promote positive role modeling for all youth. If 4-H youth development staff have reason to believe a youth or a parent/guardian has engaged in reckless or disruptive behavior at a 4-H meeting or event sponsored by UW-Extension or engaged in behavior at any time that constitutes criminal child abuse or neglect, that educator will inform that youth or parent/guardian of his/her reasons for that belief and direct that individual not to attend 4-H meetings or events sponsored by UW-Extension. Such a youth or a parent/guardian may not attend 4-H meetings or events sponsored by UW-Extension until such time as the youth or parent/guardian provides reliable evidence that he/she did not engage in such conduct.

LET'S GET STARTED!



Welcome to the 2019-2020 4-H program year! We hope this will be a fantastic year of learning and fun for your family. One of the most unique things about 4-H is that it allows members to develop expertise in areas of study that interest them. Then it provides them with a variety of opportunities to pass their knowledge on to other kids!

WHO MAY ENROLL?

Youth may enroll in 4-H from kindergarten through grade 13. Youth will continue to be eligible for 4-H membership through the next 4-H year following their graduation from high school. Youth and adults enroll either online or via paper form* through the 4-H membership management program, "4-H Online." It is accessed at <https://www.4honline.com/>. Next choose the Wisconsin tab. At that point, you will see the table below. It gives instructions for: new youth and adult enrollment; returning youth and adult re-enrollment; and contact information for all other types of help.

Welcome to 4-H Online

Welcome to Wisconsin 4-H!

New to Wisconsin 4-H?	Returning Families	Need Help?
<p>If you are new to 4-H and have never logged on to 4HOnline before, you will need to build your family profile.</p> <p>Each family should have one profile that lists all family members involved in 4-H. Please use the following steps to setup your profile:</p> <p>Click on the "I need to setup a profile" option below. Fill in the information asked. Remember that the email address that you entered is the email that you will logon with. You may change/update your profile info at any time after the initial enrollment.</p> <p>Be sure to select the county you wish to join 4-H in and not the county you live in if they are not the same.</p> <p><u>Detailed instructions are available.</u></p>	<p>Each member or volunteer must enroll in 4-H each year.</p> <p>DO NOT set up a profile. You already have an account. Your login is your email address. If you have forgotten or do not know your password, please select "I forgot my password." A temporary password will be sent via email. If you have changed your login email address, contact your county office to change it.</p> <p>You are required to re-enroll for the 2018-2019 4-H year. Profile information may have changed so it is important for everyone (youth and adult) to update their profile before submitting. Please be sure to double check your address, phone number, and email address and update if needed.</p> <p>Remember there should only be one 4HOnline profile per family.</p> <p><u>Re-enrollment instructions are available.</u></p>	<p>If you know your login email, but not your password, complete the "I forgot my password" option below.</p> <p>If you know your password, but not your login email, contact your <u>local Extension office</u></p> <p>If you are having problems logging on, please contact your local Extension office.</p>

*Families who do not have access to email must request a paper enrollment form and submit their enrollment by paper.

Columbia Co. 4-H Enrollment Deadlines:
Re-Enrolling 4-H members: November 30, 2019
New Enrolling 4-H members: March 1, 2020
Individuals who meet the above deadlines are eligible to exhibit as a 4-H member in the Junior Division at the 2020 Columbia County Fair.
Beginning September 6, 2019, re-enroll / enroll at <http://4honline.com>

ENROLLMENT

New enrollments will be taken any time of the year. The November 30 and March 1 deadlines are for determining eligibility for exhibiting as a Columbia County 4-H member in the Junior Division at the Columbia County Fair. March 1st is the deadline for adding or dropping a project. This requires contacting the Columbia County Extension Office to make the drop or add happen. Please complete the “Add or Drop Project Form” located at <https://columbia.extension.wisc.edu/4-h-youth-development/4-h-forms/4-h-enrollment-forms/>

Help may be needed if: you have trouble getting into or understanding enrollment on 4HOnline; you are not sure what project to enroll in; or you have an issue that may come up during the enrollment period. PLEASE DO NOT WAIT UNTIL THE LAST DAY TO ENROLL! If you have problems, help may not be available when you need it. Set yourself a deadline so that any problems can be addressed **prior to** November 30th, which would mean contacting the Columbia County Extension Office one week in advance during regular office hours (8:00 a.m. – 4:30 p.m.). Our numbers are 608-742-9680 (office); Sarah 608-742-9688; or Pat 608-742-9685. Please do not email if you are having issues with enrollment.

NEW ENROLLMENTS

Begin with a valid email and then follow the instructions sheet - “*Enrolling in 4HOnline as a NEW family.*” Access this from the opening page of 4honline, under “New to Wisconsin 4-H?” (see table on previous page). Adult volunteers MUST use different, valid email addresses – no duplicate emails please! You will also need to know which Columbia County 4-H Club you want to participate in.

RE-ENROLLMENT

If you were a member or adult volunteer enrolled in 4HOnline last year, all of your information will still be saved in 4HOnline. Follow the instructions sheet – “*Re-enroll Members/Leaders.*” Access this from the opening page of 4HOnline, under “Returning Families” (see table on previous page). Note: All past members and adult volunteers not re-enrolled by the November 30th deadline will be archived. If someone is archived and they want to return to 4-H membership, they must request that the UW-Madison Columbia County Extension Staff retrieve the record at that time.

CHANGE IN PERSONAL INFORMATION!! If your personal information changes at any time during the year, please take a moment to make the changes in 4HOnline, so that the UW-Madison Columbia County Extension office can serve you the best way possible. **NOTE:** We are not notified if you make changes to your 4HOnline record. Our email and mailing lists for the newsletter and the weekly update are separate from 4HOnline. Please contact the Columbia County Extension office **and** your Club Leader with your new information or you may miss out on some communications.

RECOMMENDATIONS FOR ENROLLMENT IN PROJECTS

WHAT WILL YOU BECOME AN EXPERT IN?

Make a list of the things you would like to do or 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 realize you do well, and that may influence what you will choose.

- 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.
- Finally, consider who will help you learn and grow in your project. This might be a club project leader, county-wide 4-H project committee(s), a friend, or a relative. If you need help finding a leader, please contact the Extension Office and we will assist you with locating possible leaders for the project(s) that most interest you!

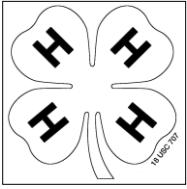
SPECIAL NOTES REGARDING CHOOSING PROJECTS/LITERATURE FOR ALL MEMBERS/LEADERS

- If you want to change from one level of a project to another, say *Art 1* to *Art 2*, please add the new project [*Art 2*], put in the *Years in Project* currently shown in *Art 1*, and then delete *Art 1*. The only project that should be showing is *Art 2* in this example.
- If you want to be a Youth Leader in a project, keeping with the example above, choose *Art – Yth Ldr* as your project, then in *Volunteer Type*, choose *Youth Leader*. No project should have *Youth Leader* as a *Volunteer Type* unless the project is “_____ - *Yth Ldr*”. Your Youth Leader Years in Project are however long you have been an official Youth Leader in that project, not the years you've been in the project yourself (e.g. if you have been in the *Art* project for 6 years, and you are for the first time enrolling in *Art – Yth Ldr*, your years in project for *Art – Yth Ldr* would be “1”).
- Literature: Please remember that the **ONLY** 4-H literature available in Columbia County is the literature listed in this 2019-2020 Columbia County 4-H Project Guide. To order 4-H project literature, please complete the 2019-2020 Project Literature Request form for your family. If you want other materials not listed, please make sure your club leader is aware of that before project literature pick-up day.

4-H CLUB DUES and OTHER CLUB-REQUIRED PAPERWORK

4-H club dues – If your 4-H club requires them, you will need to pay your *4-H club dues*. Check with your 4-H Club Leader for details about these fees or additional club-required paperwork. Your club leader will not approve your 4HOnline enrollment until your dues have been paid and forms handed in.

Confused? Call the UW-Madison Columbia County Extension office at 608-742-9680. We'll try to help.



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

So how do you know what projects are available to you? Your club organizational leader or enrollment coordinator can tell you what projects and resources are available in your county.

Do not forget to check out the project pages on the Wisconsin 4-H Web Site at <http://fyi.uwex.edu/wi4hprojects>. On these pages, you will find descriptions for statewide projects, Internet resources and links of interest, county fair exhibit suggestions, state specialist contacts, and other suggested 4-H resources.

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

How to Select 4-H Projects

4-H members . . . 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 do not even realize you do well.

Then compare your list with the projects described in this guide and any other project list you may receive from your county. Ask yourself if you have the equipment, money and time to do the projects that sound interesting.

Many projects have more than one level. If you have had a lot of experience in an area, you may want to skip the first or beginning level of a project. Many projects also have grade recommendations. These 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.

4-H leaders . . . If there are several units within a project and you are a leader for only one, then choose that unit. For example, if you are a Shooting Sports leader for archery, choose Archery. You will need to make more than one entry if you are a leader for more than one project unit. For example, if you are a Shooting Sports leader for archery *and* air pistol, choose both.



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YOUTH LEADERSHIP

<https://fyi.extension.wisc.edu/wi4hprojects/community-involvement/youth-leadership/>

YOUTH LEADERSHIP

What you can do in this project:

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

Grades: 3-13

Resource: 07905, *My Leadership Workbook--Grades 3-5*
07906, *My Leadership Journal--Grades 6-8*
07907, *My Leadership Portfolio--Grades 9-13*

YOUTH LEADERSHIP LDR OR YTH LDR

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



YOUNGER MEMBERS

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

CLOVERBUDS 1-3

What you can do in this project:

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

Grade: K-2

Resources: *Wisconsin 4-H Cloverbud Learning Activities*
4H710GPM, *The Big Book of 4-H Cloverbud Activities*

CLOVERBUDS LDR OR YTH LDR

Resources: *Essential Elements for Cloverbud Programs*
Cloverbud Leader Guide

EXPLORING

What you can do in this project:

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

Grade: 3

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

EXPLORING LDR OR YTH LDR

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



SERVICE LEARNING & CITIZENSHIP

<https://fyi.extension.wisc.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: 4-13

Resource: 08153, *Citizenship Adventure Kit*

CITIZENSHIP LDR OR YTH LDR

Resource: 08154, *Citizenship Guide's Handbook*

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 OR YTH LDR

Resource: 08180DD*QuéRico! 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: 9-13

Resource: 08183, *Raise Your Voice + CD*

SERVICE LEARNING LDR OR YTH LDR

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



SELF-DETERMINED

<https://fyi.extension.wisc.edu/wi4hprojects/community-involvement/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 OR YTH LDR



ANIMAL SCIENCES

<https://fyi.extension.wisc.edu/wi4hprojects/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*

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: 9-13

Resources: 08145, *Leading the Charge*

BEEF LDR OR YTH LDR

Resources: 08146, *Beef Helper's Guide*

117R, *Beef Resource Handbook*

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: 9-13

Resource: 08150, *Leaping Forward*

CATS LDR OR YTH LDR

Resource: 08151, *Cat Helper's Guide*

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*

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*

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: 9-13

Resources: 08163, *Rising to the Top*

DAIRY LDR OR YTH LDR

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

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*

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*

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: 9-13

Resources: 08168, *Leading the Pack*

DOGS LDR OR YTH LDR

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

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: 9-13

Resource: 08354, *Showing the Way*

DAIRY GOAT LDR OR YTH LDR

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

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: 9-13

Resource: 07911, *Meating the Future*

MEAT GOAT LDR OR YTH LDR

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

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: 01518Y, *Giddy Up & Go*

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: 01519Y, *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: 9-13

Resource: 01520Y, *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: 01521Y, *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: 8-13

Resource: 01522Y, *Jumping to New Heights*

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: 3-13

Resource: 4H389, *Horse and Riding Attire*
4H374, *Additional Patterns for Clothes Horse*

DRAFT HORSE

What you can do in this project:

- Explore different breeds and characteristics
- Learn conformation, selection and nutrition
- Practice harnessing and hitching

Grades: 6-13

Resource: 4H181, *Draft 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: 01518Y, *Giddy Up & Go*

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: 01519Y, *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: 9-13

Resource: 01520Y, *Stable Relationships*

HORSE/ HORSELESS HORSE LDR OR YTH LDR

Resources: 01523F, *Horse Helper's Guide*

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: 9-13

Resource: 06361, *Scaling the Heights*

PETS LDR OR YTH LDR

Resource: 06362, *Pet Helper's Guide*

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*
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: 9-13

Resources: 06365, *Flocking Together*

POULTRY LDR OR YTH 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: 3-13

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: 3-13

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: 3-13

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: 3-13

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 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 and rabbit registration

Grades: 9-13

Resource: 08082, *All Ears*

RABBITS LDR OR YTH LDR

Resource: 08083, *Rabbit Helper's Guide*

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*

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: 9-13

Resources: 06369, *Leading the Flock*

SHEEP LDR OR YTH LDR

Resources: 06370, *Sheep Helper's Guide*

194R, *Sheep Resource Handbook*

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: 9-13

Resources: 08067, *Going Whole Hog*

SWINE LDR OR YTH LDR

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

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*

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*

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: 9-13

Resources: 08050, *On the Cutting Edge*

VETERINARY SCIENCE LDR OR YTH LDR

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



COMMUNICATION ARTS

<https://fyi.extension.wisc.edu/wi4hprojects/arts-communication/communications/>

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: 08644DD, *Communications: Module 1*

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: 08645DD, *Communications: Module 2*

COMMUNICATIONS 3

What you can do in this project:

- Polish your communication skills
- Explore communication careers
- Write résumés and interview for a job

Grades: 9-13

Resource: 08646DD, *Communications: Module 3*

COMMUNICATIONS LDR OR YTH LDR

Resources: 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: 3-13

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

CREATIVE WRITING LDR OR 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: 3-13

Resources: COMM02, *4-H Public Speakers Handbook*
COMM06, *4-H Public Speaking Opportunities*

SPEAKING LDR OR YTH LDR



PERFORMING ARTS

<https://fyi.extension.wisc.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: 3-13

Resource: 4H265, *Enter the Clowns*

CLOWNING LDR OR 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
- Teach others and make instruments

Grades: 3-13

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

MUSIC LDR OR 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: 08445, *Theatre Arts Beginner*
08448Y, *Theatre Arts Journal*

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: 08446, *Theatre Arts Intermediate*
08448Y, *Theatre Arts Journal*

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: 9-13

Resource: 08447, *Theatre Arts Advanced*
08448Y, *Theatre Arts Journal*

THEATRE ARTS LDR OR YTH LDR



VISUAL ARTS

<https://fyi.extension.wisc.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

Resources: 4H592, *Get Started in Art Curriculum*

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: 7-13

Resources: 08140, *Advanced Visual Arts: Sketchbook Crossroads*
08141, *Advanced Visual Arts: Portfolio Pathways*

ART LDR OR 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: 5-13

Resource: 4H156, *Block Printing Member Guide*

BLOCK PRINTING LDR OR YTH 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: 3-13

Resource: 4H169, *Drawing & Painting*

DRAWING & PAINTING LDR OR YTH LDR

LEATHERCRAFT

What you can do in this project:

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

Grades: 3-13

Resource: *Adventures in Leathercraft Member's Guide*

LEATHERCRAFT LDR OR YTH 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: 5-13

Resource: 4H158, *Metal Enameling Members Guide*

METAL ENAMELING LDR OR YTH LDR

Resource: CIR009, *Metal Enameling Leader Guide*

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: 01920Y, *Photography Basics*

PHOTOGRAPHY 2

What you can do in this project:

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

Grades: 6-8

Resource: 01903Y, *Next Level Photography*

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: 9-13

Resource: 01904Y, *Mastering Photography*

PHOTOGRAPHY LDR OR 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: 6-13

Resource: DVDFILM, *4-H Filmmaking Workshop (DVD)*
IS401, *Action! Making Videos & Movies*

VIDEOGRAPHY LDR OR YTH LDR



FAMILY, HOME & HEALTH

<https://fyi.extension.wisc.edu/wi4hprojects/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, *Growing 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: 7-13

Resource: 08077, *Growing in Communities*

CHILD DEVELOPMENT LDR OR YTH LDR

Resource: 08078, *Growing All Together Helper's Guide*

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*

08380, *Health Rocks! Curriculum 1 – Beginning*

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*

08381, *Health Rocks! Curriculum 2 – Intermediate*
4H359, *Your Thoughts Matter: Navigating Mental Health*

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: 9-13

Resource: 08176, *Keeping Fit*

4H359, *Your Thoughts Matter: Navigating Mental Health*

HEALTH LDR OR YTH LDR

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: 10-13

Resource: 4H465, *In My Home*

HOME ENVIRONMENT LDR OR YTH LDR



CONSUMER EDUCATION

<https://fyi.extension.wisc.edu/wi4hprojects/family-home-health/>

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: 08030DD, *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: 08031DD, *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: 10-13

Resource: 08032DD, *Consumer Roadmap*

CONSUMER SAVVY LDR OR YTH LDR

Resource: 08033DD, *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: 7-13

Resource: 08035DD, *Entrepreneurship: Be the E*

ENTREPRENEURSHIP LDR OR YTH LDR

Resource: 08036, *Entrepreneurship Helper's Guide*

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: 07710DD, *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: 9-13

Resource: 07711DD, *Money Moves*

PERSONAL FINANCE LDR OR YTH 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: 08561, *Build Your Future Youth Notebook*

WORKFORCE READINESS LDR OR YTH LDR

Resource: 08562, *Build Your Future Facilitator's Guide*



FOODS AND NUTRITION

<https://fyi.extension.wisc.edu/wi4hprojects/family-home-health/foods-nutrition/>

BREADS

Resource: FY, *Rising to the Occasion*

BREADS LDR OR YTH LDR

CAKE DECORATING 1

Beginners Years 1 & 2 of the project

Resources: 902-1232, *Wilton Cake Decorating Beginner's Guide*

CAKE DECORATING 2

Intermediate Years 3 and 4 of the project

CAKE DECORATING 3

Advanced Years 5 and above of the project

CAKE DECORATING LDR OR 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: 6-13

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: 6-13

Resources: B2267, *Homemade Pickles & Relishes*
B2605, *Tomatoes Tart & Tasty*
B3345, *Canning Meat, Wild Game, Poultry & Fish*
B3570, *Canning Salsa Safely*

FOOD PRESERVATION LDR OR 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: 07144DD, *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: 07146DD, *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: 07148DD, *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: 10-13

Resource: 07150DD, *Foodworks*

FOODS & NUTRITION LDR OR YTH LDR

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



CLOTHING AND TEXTILES

<https://fyi.extension.wisc.edu/wi4hprojects/family-home-health/>

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*
4H2210, *FUNdamentals: STEAM Clothing 1*

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*
4H2220, *Simply Sewing: STEAM Clothing 2*

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: 9-13

Resource: 08062, *Refine Design*
4H2230, *A Stitch Further: STEAM Clothing 3*
4H2240, *Maker's Guide: STEAM Clothing*
4H2260, *Beyond the Needle: STEAM Clothing*

CLOTHING LDR OR YTH 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: 3-13

Resource: CC1403, *Crochet Made Easy*

CROCHETING LDR OR 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: 3-13

Resource: CC1402, *Knitting Made Easy*

KNITTING LDR OR YTH LDR

QUILTING

Grades: 3-13

Resources: 4JF-12PA, *Needlework -- Quilting*

QUILTING LDR OR YTH LDR



MECHANICAL SCIENCES

<https://fyi.extension.wisc.edu/wi4hprojects/mechanical-sciences/>

BICYCLES – ENG & 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 & TECH 2

What you can do in this project:

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

Grades: 5-6

Resource: 08335, *Wheels in Motion*

BICYCLING – ENG & TECH 3

Grades: 7-13

BICYCLING LDR OR YTH LDR

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

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*
01606Y, *Comp. Science & Programming with Scratch: 1*

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*
01801Y, *Comp. Science & Programming with Scratch: 2*

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: 9-13

Resource: 08348, *Peer to Peer*
01802Y, *Comp. Science & Programming with Scratch: 1*

COMPUTERS LDR OR YTH LDR

Resource: 08349, *Teens Teaching Tech*
01607Y, *Comp. Science & Programming with Scratch: Level 1 Facilitator Guide*

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: 10-13

Resource: 06851, *Entering Electronics*

ELECTRICITY LDR OR YTH LDR

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

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: 3-13

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

SCALE MODELS LDR OR YTH LDR

SMALL ENGINES 1

What you can do in this project:

- Learn the basics of small engines
- Explore external engine parts and tools
- Identify the uses of small engines and safety issues

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: 9-13

Resource: 08188, *Tune It Up!*

SMALL ENGINES LDR OR YTH LDR

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

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: 10-13 (some prior experience)

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

TRACTORS LDR OR 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: 9-13

Resource: 06878, *Finishing Up*

WOODWORKING LDR OR YTH LDR

Resource: 06879, *Woodworking Helper's Guide*



NATURAL RESOURCES & ENVIRONMENTAL EDUCATION

<https://fyi.extension.wisc.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: 3-13

Resource: 4H444, *Introduction to Adventures*

ADVENTURES LDR OR 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: 9-13

Resource: 08045, *Backpacking Expeditions*

BACKPACKING & HIKING LDR OR YTH LDR

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

ENTOMOLOGY (INSECTS) 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: 08440, *Teaming with Insects: Level 1*
08392, *Project Butterfly Wings Youth Guide*

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: 08441, *Teaming with Insects: Level 2*
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: 9-13

Resource: 08442, *Teaming with Insects: Level 3*

ENTOMOLOGY (INSECTS) LDR OR YTH LDR

Resource: 08444, *Teaming with Insects Facilitator's Guide*
08393, *Project Butterfly Wings Facilitator Guide*

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: 5-13

Resource: 08411, *Earth's Capacity*

EXPLORING YOUR ENVIRONMENT 2

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: 5-13

Resource: 08410, *Ecosystems Services*

EXPLORING YOUR ENVIRONMENT LDR

OR YTH LDR

Resources: 08412, *Exploring Your Environment Facilitator Guide*

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: 9-13

Resource: 07600DD, *Cast into the Future*

FISHING LDR OR YTH LDR

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

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: 9-13

Resource: 08040, *Explore the Deep Woods*

FORESTRY LDR OR YTH LDR

Resource: 08041, *Forestry Helper's Guide*

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: 3-13

Resource: 4H362, *Recycling for Reuse*

RECYCLING LDR OR YTH 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: 3-13

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

WATER LDR OR YTH LDR

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



SHOOTING SPORTS EDUCATION

<https://fyi.extension.wisc.edu/wi4hshootingports/>

SHOOTING SPORTS LDR OR YTH 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 [Shooting Sports webpage](#).

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: 3-13

AIR PISTOL LDR OR YTH 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: 3-13

AIR RIFLE LDR OR YTH 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 [Shooting Sports webpage](#).

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: 3-13

Resource: 751, *Archery Member Record Book*

ARCHERY LDR OR YTH 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: 3-13

HUNTING LDR OR 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 OR YTH 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

Resource: 753, *Pistol Member Record Book*

PISTOL LDR OR YTH 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

Resource: 750, *Rifle Member Record Book*

RIFLE LDR OR YTH 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

Resource: 752, *Shotgun Member Record Book*

SHOTGUN LDR OR YTH 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/>

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

Grades: 3-13

Resources: 4H440, *Marketing Your 4-H Crops*

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

Grades: 3-13

Resources: 4H440, *Marketing Your 4-H Crops*

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

Grades: 3-13

Resources: 4H440, *Marketing Your 4-H Crops*

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*

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: 9-13

Resource: 07164, *Gardening: Take Your Pick*
07165, *Gardening: Growing Profits*

FLOWERS LDR OR YTH LDR

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

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: 3-13

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 LDR OR 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

Resources: A3067, *Selecting, Planting & Caring for Shade Trees*

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: 9-13

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

HOME GROUNDS LDR OR YTH LDR

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: 9-13

Resource: 07164, *Gardening: Take Your Pick*
07165, *Gardening: Growing Profits*

HOUSE PLANTS LDR OR YTH LDR

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

PLANT CRAFTS

What you can do in this project:

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

Grades: 3-13

Resources: 4H330, *Plant Crafts*

PLANT CRAFTS LDR OR YTH LDR

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*
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: 9-13

Resource: 07164, *Gardening: Take Your Pick*
07165, *Gardening: Growing Profits*

VEGETABLES LDR OR YTH LDR

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



STEM (Science, Technology, Engineering & Math)

<https://fyi.extension.wisc.edu/wi4hprojects/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

Grade: 3

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: 9-13

Resource: 06845, *Pilot in Command*

AEROSPACE LDR OR YTH LDR

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

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: 4-13

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: 4-13

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: 4-13

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

GEOSPATIAL LDR OR 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*

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*

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*

ROBOTICS LDR OR YTH LDR

WIND ENERGY

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

WIND ENERGY LDR OR YTH LDR

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



INTERNATIONAL PROGRAMS

<https://wi4hinternational.org/>

INTERNATIONAL 1

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: 3-13

INTERNATIONAL 2 & 3

What you can do in this project:

- Explore culture, fear, and identity
- Stretch your values and frame of reference
- Challenge stereotypes and assumptions
- Connect with global citizenship

Grades: 6-13

Resource: 01501F, *WeConnect: A Global Youth Citizenship Curriculum*

INTERNATIONAL LDR OR YTH LDR



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