



Barron County 4-H Clubs and Leaders



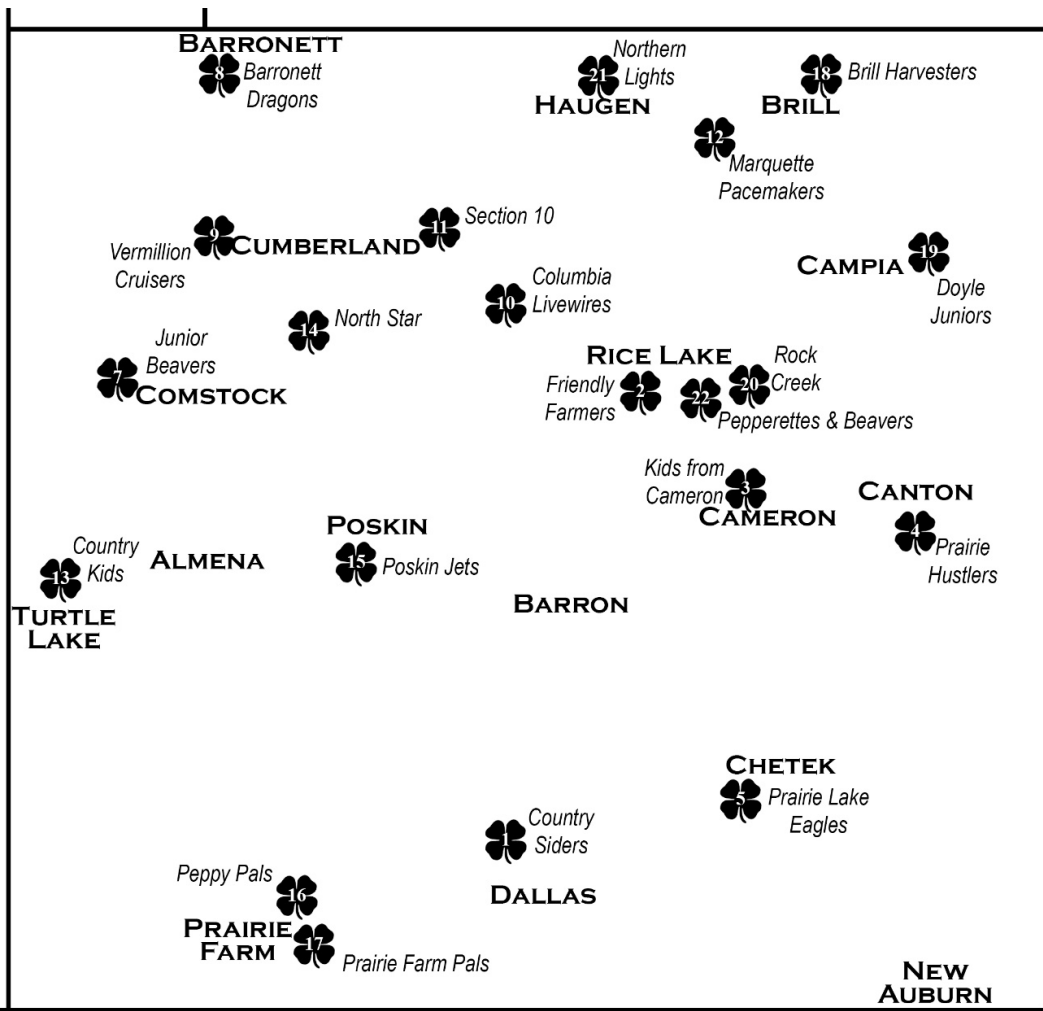
BARRON COUNTY 4-H

Club Locations & Organizational Leaders



1) Country Siders	Angie Harmon Alicia Wirth	715-296-3552 715-949-1088
2) Friendly Farmers	Erin Owens Elizabeth Smith	715-790-9230 715-205-4529
3) Kids From Cameron	Barb Lancaster	715-658-1988
4) Prairie Hustlers	Kirsten Huth Saundra Linton	715-764-2097 715-924-4870
5) Prairie Lake Eagles	Joyce Nelson Shawna Skoug Christine Conoboy	715-458-1944
6) No Club		
7) Junior Beavers	Melissa Weaver Greg Weaver	715-419-0500
8) Barronett Dragons	Peg Thompson	715-822-8872
9) Vermillion Cruisers	Emily Drafal Heather Colburn Michelle Stouffer	715-419-0629 715-357-6404 715-822-2823

10) Columbia Livewires	Carie Peterson	715-651-4545
11) Section Ten	Tamala Anderson	715-419-0421
12) Marquette Pacemakers	Cathy Solum Janice Solum	715-234-6874 715-651-7698
13) Country Kids	Lynn Kettenacker	715-986-2505
14) North Star	Diana Bazewicz	715-641-0926
15) Poskin Jets	David Frandsen	715-790-0067
16) Peppy Pals	Michelle Klefstad	715-556-9868
17) Prairie Farm Pals	Becky Segebrecht	715-505-1413
18) Brill Harvesters	Kellee Scott	
19) Doyle Juniors	Cindy Broker Arlaina Meyer Amanda Alton	715-234-2044 715-554-4031 715-651-2834
20) Rock Creek	Kori Richter	715-590-2495
21) Northern Lights Lights	Karen Germanson Jamie Kunesh	715-236-9123 715-790-0938
22) Pepperettes & Beavers	Wendie Brooten	715-475-8249



UW-MADISON EXTENSION

New to 4-H?

Use the map to find a club near you and contact the club leader for more information. Or contact the county extension office using the information below.

Just in need of info?

Our organizational leaders and county staff are ready to help!

Barron County 4-H

335 E. Monroe Ave. Rm. 2206
Barron WI 54812

715-537-6250

sara.waldron@wisc.edu

barron.extension.wisc.edu



Barron County 4-H Projects

4-H Projects are specific areas of interest for 4-H members and volunteers. Projects cover a wide variety of topics from animals, science, arts, and beyond.

How do I select projects?

- Find a few areas that you would like to try.
- Learn from a variety of resources; adults, friends, family, online, the library
- As you start, think about what you want to learn and do.

I picked a project, now what?

Many project areas are supported by project volunteers, but not all of them. After choosing projects, find out what resources are available in the county. Then use the documents at the end of this book to make a plan.

Keeping Record

All youth are encouraged to turn in a record book each year. Look through the record book requirements and keep track of learning, setting goals, and take lots of pictures. More information about record books can be found in this guide.

Project VS Exhibit

Many people in 4-H tend to use the words Project and Exhibit interchangeably. However, they are two VERY different things.

Project: 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 explore, from art to woodworking, from computers to rabbits, from clothing to small engines, from aerospace to horses. If you are interested in learning more about something, there is probably a 4-H project to help you! You will choose your projects when you register for 4-H.

Exhibit: An exhibit is an item that you have made during your 4-H project learning that you take to the County Fair. You will receive feedback from a judge on your exhibit. When you are enrolling in 4-H you are enrolling in a project, NOT selecting your fair exhibit. You will register for the Barron County Fair in June. Visit the fair website barroncountfair.com to see a list of exhibits.

Project Resources & Support

There are three levels of support for projects within 4-H.

1. County-wide Level

A volunteer or group of volunteers (Educational Team) have come forward to teach that project to any 4-H members in Barron County who are enrolled in that project. Countywide projects are additional educational resources available for any youth. They are not a requirement to fully participate in that project area. Countywide projects may have additional requirements that can be found on the website or by calling the Extension Office.

The following project areas are county-wide programs:

Dairy Project

Livestock Project (Barron County Fair Committee)

beef, sheep, swine

Dog Project

Horse Project

Shooting Sports

Junior Leaders (8-13th grade)

***Many project areas have volunteers that are happy to help at any time that are not part of an official county-wide program. Call the Extension Office and we will help find resources.*

2. Club Level

Each club has project leaders that can help in specific projects. Check with your club organizational leader(s) to find out what projects they have leaders for.

Projects available at the club level vary widely between clubs and also may change at any time during the year based on the availability of project leaders.

3. Independent or Individual Study Level

No volunteers on the countywide or club levels have come forward to teach that project. In this case, the member can find resources through various avenues

4-H Literature/Curriculum

Several projects have informative books that will be helpful to 4-Hers. We encourage you to purchase literature that focuses on your project(s). You may order these directly from the National Shop (<https://shop4-h.org>). Some project literature is available for check out at the extension office. Contact the office for a list or available materials.



Project Index

Younger Members (K-4)

Cloverbuds (Grades K-2)

Older Members (Grades 3-13)

Animal Sciences

- *Beef
- Cats
- *Dairy
- *Dogs
- Goats
- *Horses
- *Horseless Horse
- *Llamas
- Pets
- Poultry
- Rabbits
- *Sheep
- Small Animals
- *Swine
- Veterinary Science



Arts and Communications

- Arts & Crafts (Art)
- Block Printing
- *Cake Decorating
- Clowning
- Collections
- Communications/Creative Writing\
 - Speaking
- Computers
- Drawing and Painting
- *Leather Crafts
- Music
- Photography
- Videography
- Theater Arts



Community Involvement

- Service Learning & Citizenship
- Citizenship
- Self-Determined
- Service Learning
- Workforce Readiness
- Youth Leadership



Cultural Projects

- Folk Art
- History & Heritage
- Intergenerational Programs
- International Programs
- Latino Cultural Arts



Foods, Family, Home

- Child Development
- Clothing
- Consumer Savvy
- Crocheting
- Entrepreneurship
- Foods & Nutrition
- Foods Preservation
- Health
- Home Environment
- Intergenerational Programs
- Knitting
- Personal Finance
- Quilting



Outdoor Recreation (Natural Sciences)

- Adventures
- Backpacking & Hiking
- Bees
- Bicycling
- Birds
- Camping
- Canoeing
- Conservation
- Entomology (Insects/Butterfly)
- Exploring Your Environment
- Fishing
- Forestry
- Maple Syrup
- Nature and Ecology
- Recycling
- Water
- Wildflowers
- Wildlife
- Winter Travel



Plant & Soil Sciences

- Crops (Corn, Forage, Small Grains)
- Flowers
- Fruits
- Home Grounds
- Horticulture
- *House Plants
- Plant Crafts
- Plant ID
- Vegetables



Science, Technology, Engineering, Math (STEM/Mechanical Sciences)

- Aerospace
- Computers
- Electricity
- Geospatial
- Legos
- Scale Models
- Small Engines
- Tractors
- Woodworking



Shooting Sports

- *Air Pistol
- *Air Rifle
- *Archery
- *Hunting
- *Muzzleloading
- *Rifle
- *Shotgun



Project Information

More info: go.wisc.edu/4h

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.

* indicates formal county offerings



Project Descriptions

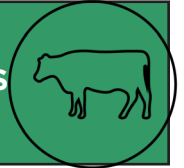
CLOVERBUDS

(K-2 Grade)

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

ANIMAL SCIENCES *(Grades 3-13)*

BEEF | CATS | DAIRY | DOGS | GOATS | HORSES | HORSELESS HORSE | LLAMAS | PETS
POULTRY | RABBITS | SHEEP | SMALL ANIMALS | SWINE | VETERINARY SCIENCE



*Beef:

Learn how to identify various beef breeds and parts of a beef animal, halter-break and show a calf, fit and judge beef cattle, recognize and raise a healthy animal; learn about feed ingredients, behavior, and parasites; learn beef carcass composition and retail meat cuts; explore selection and judging, learn about careers, discover how to market your animal.

Cats:

Identify breeds; name the parts of a cat; handle and groom a cat; care for its health; 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. Explore veterinary procedures; learn reproductive and cat body systems; learn showmanship and cat behavior; explore community laws and animal welfare.

*Dairy:

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

Dogs:

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. Explore dog health and nutrition; Discover genetic problems and population control; Learn showmanship and training techniques; Learn about show-ring ethics; Investigate responsible breeding; Care for geriatric dogs; Train service dogs; Explore careers related to dogs

Goats (Dairy & Meat):

Gain hands-on experiences in the goat project; select, manage, fit and show goats; learn responsible goat ownership. 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. 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.

Horse:

So, you want a horse. Great! What breed, type, color and physical markings would you like? Are you ready for daily care like grooming, feeding, stable care, foot care and safety? Learn the right equipment and riding skills; all a part of the 4-H Horse/Pony Project. This project is open to 4-H members who own, lease or manage a horse or pony.

Horseless Horse:

In this project you don't have to have a horse or pony of your own. You need a desire to learn about horses. Explore horse behavior, terms, breeds, identification, body parts, selection, grooming, saddling and bridling, safety and equip-ment, and much more; A horseless horse project member is defined as a 4-H member who has no one on one access to a horse. They do not own their own horse. Their family does not own or lease a horse. (Cloverbuds may not be horseless project members) (See State 4-H Horse Association Handbook)

Llamas:

Learn llama history; learn the importance of keeping health records; identify breed characteristics and external and internal parts; learn how to care for a cria; understand registration papers; recognize llama and alpaca behavior and body language; recognize the differences between llamas and alpacas; learn about llama nutrition; learn basic llama safety.

Pets:

Explore your favorite pet or select a pet; identify pet body parts; learn to provide a safe environment; design a space for your pet. Explore animal digestion and feeding; shop for pet supplies; determine the animal's sex and proper health; study pet behavior and communication, pet products; teach others about pets; understand how genetics work; animal welfare issues.

Poultry:

The poultry project will help members learn how to select, feed, manage, breed, fit, show, and market your bird. It includes ducks, geese, turkeys, chickens, bantams, waterfowl and pigeons.

Rabbits:

Learning activities include identifying rabbit breeds, learning how to handle and show a rabbit, learning rabbits genetics and breeding, housing and care, planning and making a rabbit nest box, showing rabbits, and exploring careers related to rabbits, and more.

Sheep:

Learn how to identify sheep breeds and body parts. Become familiar with sheep diseases and parasites. Learn to identify uses of wool and other by-products. Practice fitting your sheep. Explore different careers.

Small Animals:

The 4-H Small Animal Project will give you the opportunity to learn about the life history, management, and care of a pet of your choice. Learn about a variety of small pets, such as birds, guinea pigs, iguanas, snakes, or frogs. Topics may include feeding, housing and daily needs, pet selection, body parts, pet communication, handling, genetics, and reproduction. You will also enjoy participating with your friends in the other activities of your 4-H club. These may include tours, camps, shows, club parties, and club meetings. You will also get to present information about your pet at the county fair.

Swine:

Learn to identify swine breeds, feed and animal parts. Practice judging market hogs and identify pork meat cuts. Practice fitting and showing a hog. Make your own health care plan for your hog and learn to identify diseases. Assemble tack and pack a show box. As you become more experienced design a preventative herd health plan, manage your own herd's feeding program.

Veterinary Science:

Learn different breeds of animals. Be able to describe animal life stages and systems. Create health records for your animals. Understand diseases that spread from animals to humans. Discover the importance of immunity and bio- security. Learn about different veterinary careers.

ARTS & COMMUNICATIONS *(Grades 3-13)*

Arts & Crafts (Art) | Block Printing | Cake Decorating | Clowning | Collectibles
Communications/Creative Writing/Speaking | Computers | Drawing and Painting
Leather Crafts | Music | Photography | Videography | Theater Arts



Arts & Crafts (art):

Learn art through cutting, pasting and drawing; explore sculpting and constructing with fibers; paint and print using different materials. Explore art techniques, culture and history of art; learn artistic challenges in drawing, fiber arts and sculpting; develop graphic design techniques.

Block Printing:

Design and cut blocks from different materials, print designs on cloth and paper, create your own original designs.

Cake Decorating:

Prepare icing to use for borders, drop flowers, lettering, experiment with different decorating tips; learn about professional cake decorating equipment, decorate with borders, flowers, leaves and letters. Bake and frost level cakes with smooth icing; bake and frost two layer cakes; make flat surface flowers; learn piping techniques; apply rolled fondant to a cake and decorate it; study the principles of element and design used in cake decorating.

Clowning:

Discover the history of clowning; develop your own character; design your own makeup, costume and props.

Collectibles:

Collect what you love and then showcase your collection. Learn how to get started collecting your items, how to display your items, adding to your collection, and how to develop a budget and inventory of your collection.

Communications/Creative Writing/Speaking:

Learn to become a confident communicator, present oral speeches, write resumes and interview for a job. Polish your communication skill and explore communication careers and much more.

Computers:

Learn about hardware, software and components; explore how computers work; learn the various programs and their features; visit the project's interactive website. Build and repair a computer; identify the components and how they work together; learn to upgrade and create connections; install operating systems. Create and manage networks; make decisions about network management; explore security issues and troubleshooting.

Drawing and Painting:

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.

Leather Craft:

Learn about the characteristics and uses of leather, use tools and equipment, make patterns and original designs and explore various leather craft techniques.

Music:

Gain a greater appreciation for music; explore different ways to participate; listen, perform and compose various types of music; teach others; and make instruments.

Photography:

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. Camera adjustments; learn about film speed, shutter speed and aperture; take silhouettes, candid, action shots and others. 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.

Videography:

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.

Theatre Arts:

Learn about acting, makeup, costumes, sets, writing a script, planning a theater game, story dramatization and group improvisation.

COMMUNITY INVOLVEMENT *(Grades 3-13)*

**Citizenship | Self Determined | Service Learning | Workforce Readiness
Youth Leadership**



Citizenship:

Discover and discuss public issues; plan a project to change or improve your community.

Self Determined:

Create your own project or expand on an old one; select a project, develop a plan, identify resources; carry out and evaluate your plan.

Service Learning:

Learn to give back to your community, reflect on your experiences, identify community needs, plan a service project and execute the idea.

Workforce Readiness:

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

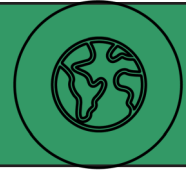
Youth Leadership:

Assess your leadership skills; practice effective communication skills; set goals and resolve conflict; and plan a group event. Explore how leaders are different; develop a multi-media presentation; set and achieve team goals; and practice teamwork. Assess your own strengths and weaknesses; write vision and mission statements; and contribute to a group project.

To Make The Best Better!

CULTURAL PROJECTS *(Grades 3-13)*

Folk Art | History & Heritage | Intergenerational Programs
International Programs | Latino Cultural Arts



Folk Art:

Explore traditional folk arts; learn more from your family and community; learn storytelling; decorate eggs and make baskets.

History & Heritage:

Discover your family history and heritage as you go on a treasure hunt for information. The records you create will last a lifetime.

Intergenerational Programs:

Intergenerational Programs: Learn to understand older people better; let them share their stories and experiences; explore what happens as you grow older.

International Programs:

Emphasizes the 4-H values of belonging and understanding through international exchange. In today's ever changing world the skill of global citizenship becomes more and more important all the time. Help the youth in your community build bridges and connect with others from around the world!

Latino Cultural Arts:

Understand the Latino culture by exploring traditional art, make Latino instruments, jewelry, weavings, etc., sample Latino foods tell stories and explore their culture.

FAMILY, HOME & HEALTH *(Grades 3-13)*

Child Development | Clothing | Consumer Savvy | Crocheting
Entrepreneurship | Foods & Nutrition | Foods Preservation | Health
Home Environment | Knitting | Personal Finance | Quilting



Child Development:

Find out how you grow and develop; learn about the development of babies and toddlers; learn how to make toys safe for small children. 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. Explore how to be an effective parent; gain experience as a teacher or coach; make babysitting and first-aid kits; Learn careers.

Clothing:

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. Identify types of fabric constructions; sew different buttonholes and seam finishes; use pressing tools and thread a serger; research different laundry products. 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.

Consumer Savvy:

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. 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. Define consumer responsibilities and ethics; understand your consumer rights; use comparison shopping techniques; understand the costs of owning a vehicle.

Crocheting:

Learn to select and purchase yarn, thread and equipment; explore crocheting and finishing techniques; understand care instructions for crocheted items.

Entrepreneurship:

Practice the skills needed to be an entrepreneur; explore businesses, products, marketing and pricing; create a business plan; and start your own business.

Foods & Nutrition:

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. 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. 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. 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.

Foods Preservation:

Learn the basics of preserving food safely; use UW- Extension Safe Food Preservation Series.

Health:

Practice first-aid skills to treat basic injuries; learn how to respond to someone who is choking; assemble a first-aid kit and much more.

Home Environment:

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, restore furniture, entertaining guests etc.

Knitting:

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.

Personal Finance:

Learn money management skills and how to live on a budget, financial services etc.

OUTDOOR EDUCATION (NATURAL SCIENCES) *(Grades 3-13)*

**Adventures | Backpacking & Hiking | Bicycling | Canoeing
Entomology (Insects/Butterfly) | Exploring Your Environment | Fishing
Forestry | Maple Syrup | Nature and Ecology | Outdoor Recreation
Recycling | Water | Wildflowers | Wildlife | Winter Travel**



Adventures:

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.

Backpacking & Hiking:

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.

Bees:

Bicycling:

Learn how and where to bicycle safely; plan a bicycle camping trip; design and build a bicycle obstacle course; conduct a bike maintenance check.

Birds:

Canoeing:

Learn how and where to canoe safely; select and care for equipment; explore aquatic environments; plan a canoe camping trip; canoe a river.

Entomology:

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.

Exploring Your Environment:

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.

Fishing:

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.

Forestry:

Identify forest types, forest products and trees; age trees by counting rings; understand forest competition; find a state forest; describe how leaves affect rainfall.

Maple Syrup:

Learn about the origin of maple syrup, areas of production, and which trees produce sugar water for making maple syrup. You will also learn about gathering sap and the processing of it into maple syrup.

Nature and Ecology:

Learn about ecosystem services; explore watersheds and water purification; collect and analyze soil samples; learn about different sources of energy; explore ecotourism; learn more about aesthetics and the environment. Learn about environmental stewardships; find out what natural capital is and why it's important; explore local and national land use. Learn about climate change and sustainability; identify ways to conserve energy.

Recycling:

Learn about the impact of solid waste on the environment; learn to reduce, reuse and recycle.

Water:

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.

Wildflowers:

Learn about wildflowers in your neighborhood; learn to identify wildflowers and how to collect them; discover how humans affect wildflowers.

Winter Travel:

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.

PLANT & SOIL SCIENCES *(Grades 3-13)*

**Crops (Corn, Forage, small grains) | Flowers | Fruits | Home Grounds
Horticulture | House Plants | Plant Crafts | Plant ID | Vegetables**



Crops:

Corn (Crops 1): learn about variety selection, germination and planting; learn about nutrients, harvesting and storage; explore uses and marketing strategies for corn. Forage (Crops 2): Establish and manage a forage crop; scout fields for pests, diseases and nutrition shortages; take an accurate forage sample; study growing techniques. Small Grains (Crops 3): Explore types of grasses, including wheat, oats and barley; learn about growing conditions and nutrients; practice integrated pest management; compare production costs and marketing.

Flowers:

Identify flower parts and their functions; plant flowers and make flower arrangements; give a presentation on flowers; prepare a flower exhibit.

Fruits:

Produce fruits from apples to berries; select the best fruit cultivar for your home garden.

Home Grounds:

Learn about seeding a lawn; study proper lawn care and maintenance; explore fertilization and pest management techniques. The importance of planting new trees and shrubs; explore variety selection and appropriate placement; learn basic maintenance: pruning and fertilization. Landscape planning; make a plan and put it on paper; select, place and plant trees and shrubs; maintain your home grounds.

Horticulture:

Learn basic principles of plant science; Learn to plan, care for, and manage vegetable and/or flower gardens, lawns, or commercial horticultural crops; Learn effective, safe methods of pest control and management; Produce vegetables and fruits for year-round use to improve nutrition; Apply knowledge by experimenting with plants in a laboratory or in the field.

House Plants:

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.

Plant Crafts:

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

Plant ID:

Flowers & Indoor Plants; Fruits & Nuts; Vegetables; Woody Ornamentals;

Vegetables:

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.

SCIENCE TECHNOLOGY ENGINEERING MATH (STEM & MECHANICAL SCIENCES) *(Grades 3-13)*

Aerospace | Computers | Electricity | Geospatial | Legos
Scale Models | Small Engines | Tractors | Woodworking



Aerospace:

Make paper airplanes; identify different types of aircraft; learn how weather affects flying; learn star constellations and their stories. Make and launch model rockets; learn the forces that act on a rocket; experiment with roll, pitch, and yaw; build a balloon shuttle; use engineering principles to design your own air- and space-crafts; learn pilot certification requirements.

Computers:

Learn about hardware, software and components; explore how computers work; learn various programs and their features; visit the projects interactive website. Build and repair a computer; Identify the components and how they work together; learn to upgrade and create connections. Discover how to create and manage networks; make decisions; explore security issues and troubleshooting.

Electricity:

Understand how to use electricity, identify electrical material and wire a simple circuit. Build a compass, flashlight, switch and electric motor. Learn to read circuit diagrams, communicate in Morse code and develop a basic electrical tool and supply kit

Geospatial:

Learn about navigational tools: GIS, GPS, compasses. Learn how to collect data and measure distances. Make maps of home, neighborhood and community. Use multi-layered maps to attempt to solve problems.

Legos:

The 4-H LEGO Project meetings encourages creativity, problem solving, and critical thinking. Learn how to practice different building techniques, learn about the engineering design process, build and test various structures and re-engineer based on what is learned through the initial process of trial and error.

Robotics:

Learn what a robot is and how to build one. Learn how to program the robot to use sensors. From beginning to advanced learn different programming techniques. Build your own robot!

Scale Models:

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.

Small Engines:

Learn the basics of small engines; explore external engine parts and tools; identify the uses of small engines and safety issues. Internal parts of engines; learn about engine sizes and safety issues; explore different jobs related to small engines. Learn to use diagnostic tools; research rules and regulations in using small engines.

Tractors:

Learn and identify parts of the tractor; understand the basics of tractor maintenance; learn about different fuels

and engine cooling systems; re- search different safety features and learn safety rules. Practice farm and trac- tor safety; understand the mechanics of engines; identify accessory equip- ment; learn the functions of different operational systems. Learn types of oil systems and fuel safety; learn how to hook on a PTO unit; learn tractor and machinery maintenance.

Woodworking: 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.

Woodworking:

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. Learn to use woodworking tools and equipment.

SHOOTING SPORTS *(Grades 3-13)*

Air Pistol | Air Rifle | Archery | Muzzleloading | Rifle | Shotgun



These projects cover the fundamentals of each discipline, marksmanship, and shooting procedures. The Wisconsin 4-H Shooting Sports program in Barron County is geared for teaching beginning target shooting skills for youth at junior, intermediate and senior levels.

- Shooting sports member age will be calculated using January 1 of the current 4-H year. This calculation date will hold true for Wisconsin 4-H club, project or participating in a county hosted state invitational event.
- 4-H Shooting Sports programs are available to youth from 3rd grade and at least 8 years old through the year following high school. Shooting Sports projects include archery, air pistol, .22 pistol, air rifle, .22 rifle, muzzleloader, and shotgun. 4-H youth must be 12 years of age by the start of the program, event, or activity to operate any powder-burning firearm. This includes .22 handgun or rifle, muzzleloader handgun or rifle, or shotgun. A county may adopt an older age limit, but in no case shall a county reduce the age limit set forth by state policy.
- Youth may participate in an organized 4-H Shooting Sports activity where firearms and archery equipment are present, only if a Level 1 Instructor is present and providing direct supervision. The Level 1 Instructor must have a current certification in the discipline in the event or activity where youth are participating (e.g. air rifle practice – at least one of the certified leaders must be certified in the rifle discipline).
- Youth Leaders do not need to be 4-H Shooting Sports certified, but must be in the presence and under the supervision of a 4-H Shooting Sports Level 1 Instructor who has certification in the shooting discipline in which the youth is participating. A Youth Leader cannot oversee an active shooting line.

Barron County Shooting Sports:

Archery

Archery training centers run from the end of January through March with a fair shoot at the end of March/early April. Youth work with certified archery volunteers to learn archery skills and practice shooting. Bows and equipment are available. An outdoor shoot is scheduled for the end of May/early June. This is for beginner through advanced.

Spring Shooting Sports

In the spring, Air Pistol, Air Rifle, Shotgun, Trap, and Rifle meet for training centers in Almena and Brill. Offerings at each location are different.