

# Dodge County 4-H



## Enrollment & Project Guide



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Dear 4-H Families,

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

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

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

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

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

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

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

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

Best wishes for a rewarding year in 4-H!

Marie Witzel  
Positive Youth Development Educator

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4-H Program Assistant

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# IMPORTANT ENROLLMENT DATES

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

**REMEMBER:**  
**Projects cannot be added or changed after December 31st!**

## WHO CAN JOIN 4-H?



### MEMBERSHIP

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

**5-year kindergarten through 2<sup>nd</sup> grade** (*as of 10/1 of this year*) can enroll in Dodge County 4-H as Cloverbuds.

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

**Starting at 4<sup>th</sup> grade, members can select from a variety of projects.**

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

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

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

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

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

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

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

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

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

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## DEADLINES

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

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

## ENROLLMENT

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

## DODGE COUNTY 4-H CLOVERBUDS

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



## DODGE COUNTY 4-H EXPLORING MEMBERS

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



## VOLUNTEER LEADERS

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

- **Club Leader** provide leadership to the club or group organization
- **Project Leader** Provide leadership and organization to the project group learning about a specific topic.
- **Activity/Event Volunteer** Provide leadership/organization for an activity or event and/or participate as a

committee member

- **Club Enrollment Coordinator** Provide leadership for members and adult volunteers who are enrolling in the club or group organization
- **Adult Advisor/Chaperone** - work with a team of adult advisors and Positive Youth Development staff to ensure youth have a safe and positive educational experience
- **Committee Volunteer** Provide leadership for a committee and/or participate as a member of a committee; create educational experiences for all youth engaged in the program

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

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

### **HOW TO SELECT PROJECTS**

- To help you get started, all projects are listed below. Some projects include an overview to help you decide.
- Make a list of things you like to do or want to learn.
- Compare the list to the projects described in this guide. Descriptions after each project are not the project requirements. What you decide to take as part of your project work is up to you.
- If this is your first year in 4-H, choose one or two projects to concentrate on.
- Ask your General Leader project questions.
- Contact the indicated *Resource Leader* for specific project questions.

## **YOUTH LEADERSHIP**

### **YOUTH LEADERSHIP**

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

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

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

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

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

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

### **YOUTH LEADERSHIP LEADER**

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

### **YOUTH LEADERSHIP YOUTH LEADER**

### **YOUNGER MEMBERS**

#### **CLOVERBUDS (5 YR KINDERGARTEN, 1<sup>ST</sup> GRADERS, 2<sup>ND</sup> GRADERS)**

- Learn about 4-H activities and events
- Learn about working together

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

#### **CLOVERBUD LEADER**

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

#### **CLOVERBUDS YOUTH LEADER**

## **EXPLORING (3<sup>rd</sup> GRADERS)**

- Learn about 4-H
- Sample a variety of projects
- Learn about yourself and others

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

### **EXPLORING LEADER**

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

### **EXPLORING YOUTH LEADER**

## **SERVICE LEARNING & CITIZENSHIP**

### **CITIZENSHIP**

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

Resource: 08153, *Citizenship Adventures Kit*

### **CITIZENSHIP LEADER**

Resource: 08154, *Citizenship Guide's Handbook*

### **CITIZENSHIP YOUTH LEADER**

## **HISTORY & HERITAGE**

### **SERVICE LEARNING**

- Learn to give back to your community
- Identify community needs
- Plan a service project and execute the idea
- Plan and implement your own service project
- Share your project plan and outcome
- Conduct an evaluation of your project

### **SERVICE LEARNING LEADER**

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

### **SERVICE LEARNING YOUTH LEADER**

### **SPECIAL EMPHASIS Member**

### **SPECIAL EMPHASIS LEADER**

### **SPECIAL EMPHASIS YOUTH LEADER**



## **SELF-DETERMINED**

### **SELF-DETERMINED**

- Create your own project or expand on an old one

Resource: 4H272, *Designing Your Own Project*

### **SELF-DETERMINED LEADER**

### **SELF-DETERMINED YOUTH LEADER**

## **ANIMAL SCIENCES**

### **BEEF**

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

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

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

Resources: 08144, *Here's the Beef*

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

Resources: 08145, *Leading the Charge*

### **BEEF LEADER**

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

### **BEEF YOUTH LEADER**

### **CAGE BIRDS Members**

Breeding management, feeding & care of cage birds.

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

### **CAGE BIRDS LEADER**

### **CAGE BIRDS YOUTH LEADER**

### **CATS**

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

Resource: 08148, *Purr-fect Pals*

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

Resource: 08149, *Climbing Up!*

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

Resource: 08150, *Leaping Forward*

### **CATS LEADER**

Resource: 08151, *Cat Helper's Guide*

### **CATS YOUTH LEADER**

### **CAVIES (Guinea Pigs)**

### **CAVIES (Guinea Pigs)**

Breeds, breeding & management, feeding & care of young, proper

equipment, showing.

### **CAVIES LEADER**

### **CAVIES YOUTH LEADER**

### **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
- Assemble tools needed for packing a show box

Resources: 08161, *Cowabunga*

CANADA1, *Showmanship...Leading to Win*

CANADA2, *Preparing to Lead*

LDR, *Lifetime Dairy Record*

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

Resources: 08162, *Mooving Ahead*

4H502, *The Rules are Black and White*

MPA, *Managerial Project Agreement:*

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

Resources: 08163, *Rising to the Top*

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

### **DAIRY LEADER**

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

### **DAIRY YOUTH LEADER**

### **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

Resources: 08166, *Wiggles and Wags*

4H436, *The Basics of Training Your Dog*

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

Resources: 08167, *Canine Connection*

4H439, *Dog Obedience – Novice & Beyond*

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

Resources: 08168, *Leading the Pack*

4H437 *A Guide to Showmanship*

### **DOGS LEADER**

Resources: 08169 *Dog Helper's Guide*

*Dodge Co. Dog Project Handbook*

4H458, *4-H Dog Judging Guidelines*

### **DOGS YOUTH LEADER**

### **DOG OBEDIENCE TRAINING**

### **DAIRY GOAT**

- Select, manage, fit, and show goats

- Learn responsible goat ownership

Resource: 08352, *Getting Your Goat*

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

Resource: 08353, *Stepping Out*

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

Resource: 08354, *Showing the Way*

### **DAIRY GOAT LEADER**

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

### **DAIRY GOAT YOUTH LEADER**

### **EXOTIC ANIMALS**

#### **MEAT GOAT**

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

Resource: 07909, *Just Browsing*

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

Resource: 07910, *Get Growing with Meat Goats*

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

Resource: 07911, *Meating the Future*

### **MEAT GOAT LEADER**

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

### **MEAT GOAT YOUTH LEADER**

### **HORSES**

- Learn horse behavior and terms
- Study breeds and identify body parts
- Saddle, groom and bridle your horse
- Practice horse safety and horse selection

Resources: 08053, *Giddy Up & Go*

CO200, *Horses & Horsemanship*

4H180, *Pleasure Riding*

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

Resource: 08054, *Head, Heart & Hooves*

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

Resource: 08055, *Stable Relationships*

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

Resource: 08056, *Riding the Range*

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

Resource: 08057, *Jumping to New Heights*

### **HORSE LEADER**

Resources: 08058, *Horse Helper's Guide*

### **HORSE YOUTH LEADER**

### **HORSELESS HORSE**

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

Resource: 08053, *Giddy Up & Go*

4H260, *Horses are Fun – Horseless Horse*

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

Resource: 08054, *Head, Heart & Hooves*

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

Resource: 08055, *Stable Relationships*

### **HORSELESS HORSE LEADER**

Resources: 07200, *Horse Pattern*

### **HORSELESS HORSE YOUTH LEADER**

### **LLAMAS**

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

### **PETS**

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

Resource: 06359, *Pet Pals*

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

Resource: 06360, *Scurrying Ahead*

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

Resource: 06361, *Scaling the Heights*

### **PETS LEADER**

Resource: 06362, *Pet Helper's Guide*

### **PETS YOUTH LEADER**

### **POULTRY**

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



- Fit and show poultry

Resources: 06363, *Scratching the Surface SA, Small Animal Project Record*

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

Resources: 06364, *Testing Your Wings*  
4H281, *Poultry for Fun & Food*  
A2880, *Chicken Breeds & Varieties*

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

Resources: 06365, *Flocking Together SA, Small Animal Project Record*

## **POULTRY LEADER**

Resource: 06366, *Poultry Helper's Guide*

## **POULTRY YOUTH LEADER**

### **POULTRY BANTAMS**

- 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

Resources: NCR209, *Bantams*

### **POULTRY EXOTIC BIRDS (Ostrich, Emu)**

### **POULTRY GAME BIRDS (Quail, Pheasant)**

### **POULTRY MARKET**

### **POULTRY PIGEONS**

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

Resource: 4H135, *Pigeons*

### **POULTRY TURKEYS**

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

Resources: NCR060, *Small Turkey Flock Management*

### **POULTRY WATERFOWL**

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

Resources: A3311, *Raising Waterfowl*

## **RABBITS**

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

Resource: 08080, *What's Happening?*

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

- Detect diseases

Resource: 08081, *Making Tracks*

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

Resource: 08082, *All Ears*

## **RABBITS LEADER**

Resource: 08083, *Rabbit Helper's Guide*

## **RABBITS YOUTH LEADER**

## **RABBITS MARKET**

## **RABBIT HOPPING**

## **SHEEP**

What you can do in this project:

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

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

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

Resources: 06368, *Shear Delight*

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

Resources: 06369, *Leading the Flock*

## **SHEEP LEADER**

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

## **SHEEP YOUTH LEADER**

## **SMALL ANIMALS**

### **SWINE**

- Identify swine breeds, feeds and animal parts
- Practice judging market hogs
- Identify pork meat cuts
- Practice fitting and showing a hog

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

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

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

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

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

## **SWINE LEADER**

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

## **SWINE YOUTH LEADER**

### **TROPICAL FISH**

#### **VETERINARY SCIENCE 1**

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

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

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

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

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

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

#### **VETERINARY SCIENCE LEADER**

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

#### **VETERINARY SCIENCE YOUTH LEADER**

### **SELF-DETERMINED – ANIMAL SCIENCES**

## **COMMUNICATION & CULTURAL ARTS**

### **ART**

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

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

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

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

### **ARTS LEADER**

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

### **ARTS YOUTH LEADER**

### **BASKETRY - no literature available**

### **BASKETRY LEADER**

### **BASKETRY YOUTH LEADER**

### **BEADWORK**

### **BLOCK PRINTING**

### **CAKE DECORATING**

- Learn cake decorating techniques.

### **CAKE DECORATING LEADER**

### **CAKE DECORATING YOUTH LEADER**

### **CALLIGRAPHY**

### **CANDLEMAKING**

### **CERAMICS LEADER**

### **CERAMICS Member**

### **CERAMICS YOUTH LEADER**

### **CLOWNING**

- Discover the history of clowning

- Develop your own character
- Design your own makeup, costume and props

Resource: 4H265, *Enter the Clowns*

### **CLOWNING LEADER**

### **CLOWNING YOUTH LEADER**

### **COLLAGES**

### **COMMUNICATIONS**

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

Resource: 08156, *Picking Up the Pieces*

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

Resource: 08157, *Putting It Together*

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

Resource: 08158, *The Perfect Fit*

### **COMMUNICATIONS LEADER**

Resources: BU8159, *Communications Helper's Guide*

COMM04, *Voices From the Past*

COMM05, *It's All in the Family*

COMM07, *Communication Activities for 4-H Clubs*

### **COMMUNICATIONS YOUTH LEADER**

### **COMPUTER GRAPHIC DESIGN**

### **CREATIVE/CROSS STITCHERY**

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

### **CREATIVE/CROSS STITCHERY LEADER**

### **CREATIVE/CROSS STITCHERY YOUTH LEADER**

### **CREATIVE WRITING**

Resources: COMM01, *Creative Woodworking*

COMM03, *Crazy About Books Reading Circle*

### **CREATIVE WRITING LEADER**

### **CREATIVE WRITING YOUTH LEADER**

### **DANCE**

### **DECORATIVE BOXES**

### **DECORATIVE WREATHS**

### **DECOUPAGE**

### **DEMONSTRATIONS**

Resource: 4H309 *Let's Demonstrate!*

### **DEMONSTRATIONS LEADER**

### **DEMONSTRATIONS YOUTH LEADER**

### **DRAWING & PAINTING**

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

Resource: 4H169, *Drawing & Painting*

### **DRAWING & PAINTING LEADER**

### **DRAWING & PAINTING YOUTH LEADER**

### **FIBER ARTS**

### **FLOWERCRAFTS**

## **FOLK ARTS**

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

## **FOLK ARTS LEADER**

Resource: NCR534, *Folk Arts Leader Guide*

## **FOLK ARTS YOUTH LEADER**

## **GLASSWORK**

## **HANDMADE DOLLS**

## **JEWELRY MAKING**

## **JUGGLING**

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

Grades: 3-12

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

## **LATINO CULTURAL ARTS**

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

## **LATINO CULTURAL ARTS LEADER**

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

## **LATINO CULTURAL ARTS YOUTH LEADER**

## **LEATHERCRAFT**

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

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

## **LEATHERCRAFT LEADER**

Resource: CIR006, *Adventures in Leathercraft Leaders Guide*

## **LEATHERCRAFT YOUTH LEADER**

## **LIQUID EMBROIDERY**

## **MACRAME**

## **METAL ENAMELING**

## **MOSAICS**

## **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

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

## **MUSIC LEADER**

Resource: 4H351, *Sing Along Songbook*

## **MUSIC YOUTH LEADER**

## **NEEDLEPOINT**

## **ORNAMENTS**

## **PAPER ART**

## **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

Resource: PC1, *Focus on Photography*

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

Resource: PC2, *Controlling the Image*

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

Resource: PC3, *Mastering Photography*

## **PHOTOGRAPHY LEADER**

## **PHOTOGRAPHY YOUTH LEADER**

## **PLASTERCRAFT**

## **POSTERS**

## **FUZZY POSTERS**

## **POTTERY**

## **PRINT MAKING**

## **PUPPETRY**

## **ROCK ART**

## **RUBBER STAMPING - No literature available**

## **RUBBER STAMPING LEADER**

## **RUBBER STAMPING YOUTH LEADER**

## **RUG HOOKING**

## **SCRAPBOOKING**

Resource: NDSU Extension Service FG108

## **SCRAPBOOKING LEADER**

## **SCRAPBOOKING YOUTH LEADER**

## **SCULPTY CLAY**

## **SIGN LANGUAGE**

## **SOAP CARVING**

## **SOAP MAKING**

## **SPEAKING**

- Plan, practice and present an effective speech
- Gain confidence in public speaking
- Plan, practice and present an effective demonstration

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

COMM06, *4-H Public Speaking Opportunities*

## **SPEAKING LEADER**

## **SPEAKING YOUTH LEADER**

## **STENCIL PAINTING**

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

## **STENCIL PAINTING LEADER**

## **STENCIL PAINTING YOUTH LEADER**

## **STRING/WIRE ART**

## **THEATRE ARTS**

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

Resource: 08070, *Play the Role*

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

Resource: 08071, *Become a Puppeteer!*

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

Resource: 08072, *Set the Stage*

## **THEATRE ARTS LEADER**

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

## **THEATRE ARTS YOUTH LEADER**

### **TIE DYING**

### **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

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

### **WEAVING**

### **WEARABLE ART**

### **WOOD ART**

### **WOOD BURNING**

## **SELF-DETERMINED COMMUNICATION &**

## **CULTURAL ARTS**

## **FAMILY, HOME & HEALTH**

### **BOWLING**

### **BREADS**

### **CANDYMAKING**

### **CHILD DEVELOPMENT**

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

Resource: 08075, *On My Own*

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

Resource: 08076, *Growing With Others*

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

Resource: 08077, *Growing in Communities*

### **CHILD DEVELOPMENT LEADER**

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

### **CHILD DEVELOPMENT YOUTH LEADER**

### **CLOTHING 1**

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

Resources: 08060, *Under Construction*

### **CLOTHING 2**

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

Resource: 08061, *Fashion Forward*

### **CLOTHING 3**

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

Resource: 08062, *Refine Design*

## **CLOTHING LEADER**

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

## **CLOTHING YOUTH LEADER**

### **CONSUMER SAVVY 1**

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

Resource: 08030, *The Consumer in Me*

### **CONSUMER SAVVY 2**

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

Resource: 08031, *Consumer Wise*

### **CONSUMER SAVVY 3**

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

Resource: 08032, *Consumer Roadmaps*

### **CONSUMER SAVVY LEADER**

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

### **CONSUMER SAVVY YOUTH LEADER**

### **CROCHETING**

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

Resource: CC1403, *Crochet Made Easy*

### **CROCHETING LEADER**

### **CROCHETING YOUTH LEADER**

### **ENTREPRENEURSHIP**

- Practice the skills needed to be an entrepreneur
- Explore businesses, products, marketing and pricing
- Create a business plan and start your own business

Resource: 08035, *Entrepreneurship: Be the E*

### **ENTREPRENEURSHIP LEADER**

Resource: 08036, *Entrepreneurship Helper's Guide*

### **ENTREPRENEURSHIP YTH LDR**

### **FOODS & NUTRITION 1**

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

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

### **FOODS & NUTRITION 2**

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

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

### **FOODS & NUTRITION 3**

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

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

## **FOODS & NUTRITION 4**

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

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

## **FOODS & NUTRITION LEADER**

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

## **FOODS & NUTRITION YOUTH LEADER**

## **FOODS PRESERVATION**

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

Literature can be purchased or printed online at:

<https://learningstore.extension.wisc.edu/>. This project introduces youth to the basics of preserving fruits, vegetables, and meats safely.

Select publications from the *Extension Safe Food Preservation Series* for the foods that you want to preserve.

## **FOODS PRESERVATION LEADER**

## **FOODS PRESERVATION YOUTH LEADER**

## **FUN & FITNESS**

## **HEALTH**

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

Resource: 08174, *First Aid in Action*

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

Resource: 08175, *Staying Healthy*

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

Resource: 08176, *Keeping Fit*

## **HEALTH LEADER**

## **HEALTH YOUTH LEADER**

## **HOME ENVIRONMENT**

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

Resource: 4H425, *Exploring Your Home*

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

Resource: 4H426, *Living With Others*

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

Resource: 4H427, *Where I Live*

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

Resource: 4H465, *In My Home*

## **HOME ENVIRONMENT LEADER**

## **HOME ENVIRONMENT YOUTH LEADER**

## **INTERGENERATIONAL PROGRAMS**

- Learn to understand older people better
- Let them share their stories and experiences
- Explore what happens as you grow older

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

## **INTERGENERATIONAL PROGRAMS LEADER**

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

## **INTERGENERATIONAL YOUTH LEADER**

## **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

Resource: CC1402, *Knitting Made Easy*

## **KNITTING LEADER**

## **KNITTING YOUTH LEADER**

## **MICROWAVE**

## **PERSONAL FINANCE**

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

Resource: 07710, *Money FUNDamentals*

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

Resource: 07711, *Money Moves*

## **PERSONAL FINANCE LEADER**

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

## **PERSONAL FINANCE YOUTH LEADER**

## **QUILTING**

## **QUILTING LEADER**

## **QUILTING YOUTH LEADER**

## **SAFETY**

## **SOFTBALL**

## **SPORTS**

## **WOOLSPINNING**

## **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

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

## **WORKFORCE READINESS LEADER**

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

## **WORKFORCE READINESS YOUTH LEADER**

## **SELF—DETERMINED FAMILY, HOME & HEALTH**

## **MECHANICAL SCIENCES**

## **AEROSPACE**

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

Resource: 06843, *Lift Off*

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

- Organize a kite-flying contest
- Resource: 06844, *Reaching New Heights*
- Design and build rockets and box kites
  - Build an altitude tracker, plan a flight route
  - Discover the affects of gravity
  - Explore life in space and aerospace careers

Resource: 06845, *Pilot in Command*

### **AEROSPACE LEADER**

Resource: 06846, *Aerospace Helper's Guide*

### **AEROSPACE YOUTH LEADER**

### **AUTOMOTIVE**

### **BICYCLING – ENG & TECH**

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

Resource: 08335, *Wheels in Motion*

### **BICYCLING LEADER**

Resources: 08336, *Bicycle Helper's Guide*  
087507, *Bicycle Fix It! (DVD)*

### **BICYCLING YOUTH LEADER**

### **BLACKSMITHING**

### **COMPUTERS**

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

Resource: 08346, *Newbie Know How*

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

Resource: 08347, *Inside the Box*

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

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

### **COMPUTERS LEADER**

Resource: 08349, *Teens Teaching Tech*

### **COMPUTERS YOUTH LEADER**

### **ELECTRICITY 1**

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

Resource: 06848, *Magic of Electricity*

### **ELECTRICITY 2**

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

Resource: 06849, *Investigating Electricity*

### **ELECTRICITY 3**

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

Resource: 06850, *Wired for Power*

### **ELECTRICITY 4**

- Identify electrical and electronic parts and devices

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

Resource: 06851, *Entering Electronics*

### **ELECTRICITY LEADER**

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

### **ELECTRICITY YOUTH LEADER**

### **FLYING**

### **GEOCACHING**

### **GEOSPATIAL**

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

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

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

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

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

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

### **GEOSPATIAL LEADER**

### **GEOSPATIAL YOUTH LEADER**

### **HANDYMAN**

### **LEGOS**

### **LEGOS LEADER**

### **LEGOS YOUTH LEADER**

### **MAINTENANCE & REPAIR**

### **MECHANICAL SCIENCES**

### **MODEL CARS**

### **MODEL RAILROAD**

### **MODEL ROCKETRY**

### **OFF-HIGHWAY VEHICLES**

### **RADIO-CONTROLLED PLANE**

### **REMOTE CONTROLLED CARS**

### **ROBOTICS**

### **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

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

### **SCALE MODELS LEADER**

### **SCALE MODELS YOUTH LEADER**

### **SMALL ENGINES 1**

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

Resource: 08186, *Crank It Up!*

### **SMALL ENGINES 2**

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

Resource: 08187, *Warm It Up!*



## **SMALL ENGINES 3**

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

Resource: 08188, *Tune It Up!*

## **SMALL ENGINES LEADER**

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

## **SMALL ENGINES YOUTH LEADER**

## **SNOWMOBILING**

## **STEM**

## **STEM, EXPLORING**

## **TRACTOR CERTIFICATION**

## **TRACTORS**

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

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

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

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

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

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

- Focus on safety and maintenance
- Identify and work with operational systems

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

## **TRACTORS LEADER**

## **TRACTORS YOUTH LEADER**

## **WELDING**

## **WOODWORKING 1**

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

Resource: 08675, *Measuring Up*

## **WOODWORKING 2**

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

Resource: 06876, *Making the Cut*

## **WOODWORKING 3**

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

Resource: 06877, *Nailing It Together*

## **WOODWORKING 4**

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

Resource: 06878, *Finishing Up*

## **WOODWORKING LEADER**

Resource: 06879, *Woodworking Helper's Guide*

## **WOODWORKING YOUTH LEADER**

## **SELF-DETERMINED MECHANICAL SCIENCE**

## **NATURAL RESOURCES, SHOOTING**

## **SPORTS, & ENVIRONMENTAL EDUCATION**

## **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

Resource: 4H444, *Introduction to Adventures*

## **ADVENTURES LEADER**

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

## **ADVENTURES YOUTH LEADER**

## **AQUATIC SCIENCE**

## **ARCHERY**

- Learn the fundamentals of archery marksmanship
- Learn rules and safety guidelines
- Make archery equipment
- Shoot with sights and different bows

Resource: 751, *Archery Member Record Book*

## **ARCHERY LEADER**

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

Resource: 751, *Archery Member Record Book*

## **ARCHERY YOUTH LEADER**

## **ASTRONOMY**

## **BACKPACKING & HIKING**

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

Resource: 08043, *Hiking Trails*

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

Resource: 08044, *Camping Adventures*

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

Resource: 08045, *Backpacking Expeditions*

## **BACKPACKING & HIKING LEADER**

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

## **BACKPACKING & HIKING YOUTH LEADER**

## **BEEES**

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

4H571-W, *Understanding the Honey Bee*

[www.extension.purdue.edu/extmedia/4H/4-H-571-W.pdf](http://www.extension.purdue.edu/extmedia/4H/4-H-571-W.pdf)

4H586-W, *Working with Honey Bees*

[www.extension.purdue.edu/extmedia/4H/4-H-586-W.pdf](http://www.extension.purdue.edu/extmedia/4H/4-H-586-W.pdf)

4H593-W, *Advanced Beekeeping Methods*

[www.extension.purdue.edu/extmedia/4H/4-H-593-W.pdf](http://www.extension.purdue.edu/extmedia/4H/4-H-593-W.pdf)

## **BICYCLING – ENVIRON ED**

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

Resource: 4H446 *Bicycling*

## **BIRDS**

### **CAMPING**

### **CANOEING**

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

Resource: 4H447 *Canoeing*

## **CONSERVATION**

### **CROSS COUNTRY SKIING**

### **DOWNHILL SKIING**

### **ENTOMOLOGY (INSECTS)**

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

Resource: 06853, *Creepy Crawlies*

08393, *Project Butterfly Wings Youth Guide*

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

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

08393, *Project Butterfly Wings Youth Guide*

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

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

### **ENTOMOLOGY LEADER**

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

08393, *Project Butterfly Wings Facilitator Guide*

### **ENTOMOLOGY YOUTH LEADER**

### **EXPLORING YOUR ENVIRONMENT**

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

Resource: 08411, *Earth's Capacity*

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

Resource: 08411, *Earth's Capacity*

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

Resource: 08410, *Ecosystems Services*

### **EXPLORING YOUR ENVIRONMENT LEADER**

Resources: 08412, *Exploring Your Environment Facilitator Guide*

PUB-CE-456, *Education Connection*

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

### **EXPLORING YOUR ENVIRONMENT YOUTH LEADER 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

Resource: 07598, *Take the Bait*

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

Resource: 07599, *Reel in the Fun*

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

Resource: 07600, *Cast into the Future*

### **FISHING LEADER**

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

### **FISHING YOUTH LEADER**

### **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

Resource: 08038, *Follow the Path*

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

Resource: 08039, *Reach for the Canopy*

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

Resource: 08040, *Explore the Deep Woods*

### **FORESTRY LEADER**

Resource: 08041, *Forestry Helper's Guide*

### **FORESTRY YOUTH LEADER**

### **GEOLOGY**

### **HOME ENERGY**

### **HUNTING**

- Learn the history, philosophy and laws of hunting
- Learn to plan and equip yourself for a hunt

### **HUNTING LEADER**

### **HUNTING YOUTH LEADER**

### **MAPLE SYRUP Member** No literature

### **MUZZLELOADING**

- 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 LEADER**

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

## **MUZZLELOADING YOUTH LEADER**

### **PISTOL (smallbore .22)**

- 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 LEADER**

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

## **RECYCLING**

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

Resource: 4H362, *Recycling for Reuse*

### **RECYCLING LEADER**

### **RECYCLING YOUTH LEADER**

## **REPTILES**

## **ROCK CLIMBING**

## **ROCK HOUND**

## **SCIENCE**

### **SCIENCE DISCOVERY**

### **RIFLE**

- 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 LEADER**

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

### **RIFLE YOUTH LEADER**

### **SHOTGUN**

- 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 LEADER**

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

### **SHOTGUN YOUTH LEADER**

## **TAXIDERMY**

## **WATER**

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

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

### **WATER LEADER**

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

### **WATER YOUTH LEADER**

## **WEATHER**

### **WILDFLOWERS**

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

Resource: 4H392, *Wildflowers*

### **WILDLIFE LEADER**

**WILDLIFE Member** No Literature

### **WILDLIFE YOUTH LEADER**

### **WILDLIFE HABITAT**

### **WIND ENERGY**

### **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

Resource: 4H448, *Winter Travel*

## **SELF-DETERMINED ENVIRONMENTAL EDUCATION**

## **PLANT & SOIL SCIENCES**

### **CROPS - i.e. CORN**

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

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

### **CROPS – i.e. FORAGE**

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

Resources: 4H349, *Pest Scouting Alfalfa*

### **CROPS – i.e. SMALL GRAINS**

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

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

### **CROPS – i.e. SOYBEANS**

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

### **CROPS – i.e. WEED MANAGEMENT**

### **CROPS LEADER**

### **CROPS YOUTH LEADER**

### **FLOWER CRAFTS**

### **FLOWERS**

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

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

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

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

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

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

## **FLOWERS LEADER**

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

## **FLOWERS YOUTH LEADER**

## **FRUITS**

### **Specify type of fruit.**

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

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

## **FRUITS LEADER**

## **FRUITS YOUTH LEADER**

## **HERBS**

## **HOME GROUNDS**

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

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

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

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

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

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

## **HOME GROUNDS LEADER**

## **HOME GROUNDS YOUTH LEADER**

## **HORTICULTURE**

## **HOUSE PLANTS**

- Identify plant parts and their functions
- Grow house plants, start a plant from a cutting
- Make a dish garden,
- Prepare house plants for exhibit
- Learn about plant seeds and soil
- Select and start new plants and grow transplants

- Plant a terrarium
- Examine plants for insects and diseases
- Take a tour of a horticulture business
- Design a plant experiment
- Teach others how to grow house plants
- Compare different fertilizers: organic and chemical

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

## **HOUSE PLANTS LEADER**

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

## **HOUSE PLANTS YOUTH LEADER**

## **PLANT CRAFTS**

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

Resources: 4H330, *Plant Crafts*

## **PLANT CRAFTS LEADER**

## **PLANT CRAFTS YOUTH LEADER**

## **SOIL SCIENCE**

## **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

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

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

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

- Grow plants in a cold frame
- Make a site analysis and landscape plan
- Compare organic and chemical fertilizers
- Research various insect control methods

Resource: 07164, *Gardening: Take Your Pick*

## **VEGETABLES LEADER**

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

## **VEGETABLES YOUTH LEADER**

## **INTERNATIONAL PROGRAMS**

## **INTERNATIONAL**

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

Resource: 4H812, *And My World*

## **INTERNATIONAL LEADER**

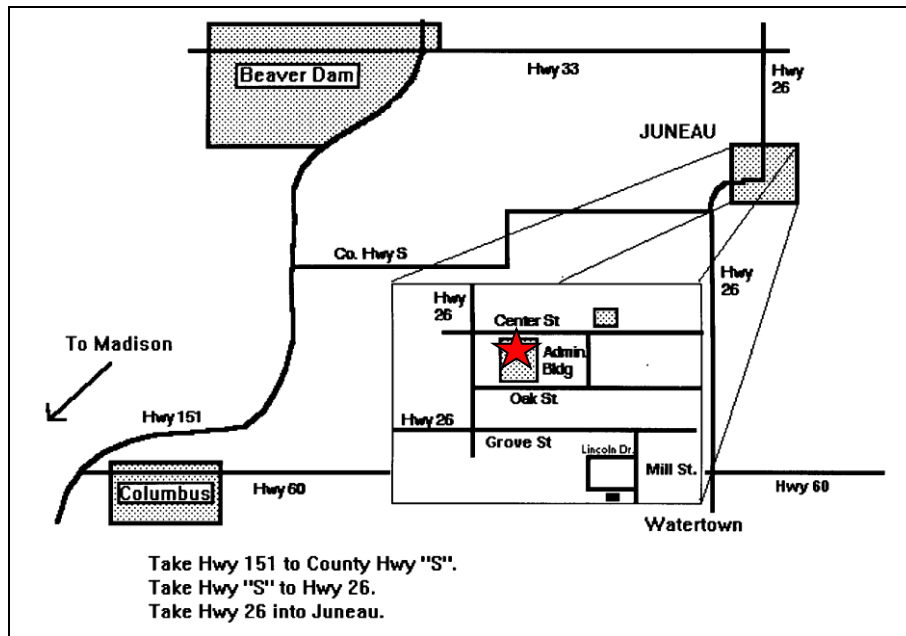
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