Wisconsin 4-H Project Guide
(with Supplements)

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

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

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

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

How to Select 4-H Projects

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

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

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

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

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YOUTH LEADERSHIP

YOUTH LEADERSHIP

AMBASSADORS

AMBASSADORS LDR

YOUTH LEADERSHIP

What you can do in this project:

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

Resources: 07905, My Leadership Workbook for Grades 3-5
07906, My Leadership Journal for Grades 6-8
07907, My Leadership Portfolio for Grades 9-12

YOUTH LEADERSHIP LDR OR YOUTH LDR

07904, Leadership Mentor Guide for Grades 6-12

YOUNGER MEMBERS

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

CLOVERBUDS – grades K-2

What you can do in this project:

- Learn about your 4-H club or group
- Begin developing different skills, e.g., working with others
- Explore your community
- Discover areas of project interest
- Learn about 4-H activities and events
- Learn about working together as a club or team
- Share with others what you have learned
- Begin learning about specific 4-H project areas
- Learn to complete projects as an individual
- Share with others what you have learned

Resources: 05561, Cloverbuds – Activity Sheets
05562, Cloverbuds – Program Record
05563, Cloverbuds – Participation Summary

CLOVERBUDS LDR OR YOUTH LDR

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

EXPLORING – grades 3+

What you can do in this project:

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

Resource: 08171, Exploring the Treasures of 4-H

10300 EXPLORING LDR OR YOUTH LDR

Resources: 08172, Exploring Treasures of 4-H Helper’s Guide
SERVICE LEARNING & CITIZENSHIP
http://fyi.uwex.edu/wi4hprojects/community-involvement/

CITIZENSHIP
What you can do in this project:
• Discover and discuss public issues
• Plan a project to change or improve your community
Grades: 4-12
Resource: 08153, Citizenship Adventure Kit

CITIZENSHIP LDR OR YOUTH LDR

HISTORY & HERITAGE
HISTORY & HERITAGE LDR OR YOUTH LDR

LATINO CULTURAL ARTS
What you can do in this project:
• Understand the Latino culture by exploring traditional art
• Make Latino instruments, jewelry, weavings, murals, etc.
• Celebrate Latino holidays, sample foods and tell stories

LATINO CULTURAL ARTS LDR OR YOUTH LDR
Resource: 08180, QueRico! La Cultura Bilingual Helper’s Guide

SERVICE LEARNING
What you can do in this project:
• Learn to give back to your community
• Reflect on your experiences
• Identify community needs
• Plan a service project and execute the idea
• Plan and implement your own service project
• Share your project plan and outcome with others
• Conduct an evaluation of your project
Resources: 08182, Agents of Change + CD
08183, Raise Your Voice + CD

SERVICE LEARNING LDR OR YOUTH LDR
Resource: 08184, Service Learning Helper’s Guide

SELF-DETERMINED

SELF-DETERMINED
What you can do in this project:
• Create your own project or expand on an old one
• Select a project, develop a plan, identify resources
• Carry out and evaluate your plan
Resource: 4H272, Designing Your Own Project

SELF-DETERMINED LDR OR YOUTH LDR

SELF-DETERMINED ANIMAL SCIENCES
SELF-DETERMINED ARTS & COMMUNICATION
SELF-DETERMINED ENVIRONMENTAL EDUCATION

SELF-DETERMINED FAMILY, HOME, & HEALTH

SELF-DETERMINED MECHANICAL SCIENCES

SELF-DETERMINED PLANT & SOIL SCIENCES

ANIMAL SCIENCES
http://fyi.uwex.edu/wi4hprojects/animal-sciences/

BEEF
What you can do in this project:
• Identify various beef breeds
• Identify parts of a beef animal
• Halter-break and show a calf
• Fit and judge beef cattle
• Recognize and raise a healthy animal
• 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
• Explore selection and judging
• Learn about careers, health, reproduction, etc.
• Discover how to market your animal and by-products
Resources: 08143, Bite Into Beef
4H450, Judging Breeding & Market Cattle
08144, Here’s the Beef
08145, Leading the Charge

BEEF LDR OR YOUTH LDR
Resources: 08146, Beef Helper’s Guide
117R, Beef Resource Handbook

CAGE BIRDS

CAGE BIRDS LDR OR YOUTH LDR

CATS
What you can do in this project:
• Select a cat
• Identify cat breeds
• Name the parts of a cat
• Handle and groom a cat
• Care for its health
• Create a budget
• 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 reproduction and cat body systems
• Learn showmanship and cat behavior
• Explore community laws and animal welfare
Resources: 08148, Purr-fect Pals
08149, Climbing Up!
08150, Leaping Forward
CATS LDR OR YOUTH LDR
Resource: 08151, Cat Helper’s Guide

CAVIES
CAVIES LDR OR YOUTH LDR

DAIRY
What you can do in this project:
- Identify dairy breeds
- Study and identify parts of the dairy cow
- Learn how to select quality dairy calves
- Fit and show a calf
- Identify stages of calving and care
- Assemble tools needed for packing a show box
- 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

Resources:
08161, Cowabunga
CANADA1, Showmanship...Leading to Win
LEADER, Lifetime Dairy Record
08162, Mooving Ahead
CANADA2, Preparing to Lead
MPA, Managerial Project Agreement
08163, Rising to the Top
HMR, WI 4-H Dairy Heifer Mgmt. Record

DAIRY LDR OR YOUTH LDR
Resource: 08164, Dairy Cow Helper’s Guide

DOGS
DOGS Obedience Training
DOGS OBEDIENCE TRAINING LDR OR YOUTH LDR

EXOTIC ANIMALS
EXOTIC ANIMALS LDR OR YOUTH LDR

DAIRY GOAT
What you can do in this project:
- Gain hands-on experiences in the goat project
- Select, manage, fit and show goats
- Learn responsible goat ownership
- 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

Resources:
08352, Getting Your Goat
08353, Stepping Out
08354, Showing the Way

MEAT GOAT
What you can do in this project:
- Identify meat goat breeds and parts
- Learn to select a good animal
- Feed and care for a meat goat
- Develop a budget for a meat goat project
- Recognize meat goat diseases
- Select a veterinarian and purchase breeding stock
- Understand reproduction cycle and keep records
- Fit and show meat goats
- Learn to control diseases
- Understand bio-security and quality assurance
- Formulate rations
- Evaluate goat pastures

Resources:
07909, Just Browsing
07910, Get Growing with Meat Goats
07911, Meating the Future

PYGMY GOAT
PYGMY GOAT LDR OR YOUTH LDR

HORSE
HORSE LDR OR YOUTH LDR

Resources:
08169, Dog Helper’s Guide
4H458, 4-H Dog Judging Guidelines
• Learn about tack, feeding and diseases
• Practice showing a horse and trail riding
• Explore horse breeding, genetics and heredity
• Understand horse diseases and prevention
• Learn about fencing, pasturing and housing
• Explore horse-related careers
• Train a horse
• Practice a round-pen workout
• Learn English and Western style bridles
• Understand equitation and riding styles
• Learn to set goals
• Compare costs of show clothing
• Present your horse in showmanship classes
• Rate your showmanship skills
• Practice proper show ethics

Resources: 08053, Giddy Up & Go
CO200, Horses & Horsemanship
CO201, Horse Science
4H180, Pleasure Riding
08054, Head, Heart & Hooves
08055, Stable Relationships
08056, Riding the Range
08057, Jumping to New Heights

HORSE/ HORSELESS HORSE LDR OR YOUTH LDR

Resources: 08058, Horse Helper’s Guide

CLOTHES HORSE
What you can do in this project:
• Learn how to make riding apparel and equipment
• Develop sewing and creative skills
• Understand textile selection and care

Resources: 4H374, Additional Patterns for Clothes Horse
4H389, Horse & Riding Attire

CLOTHES HORSE LDR OR YOUTH LDR
Resource: 4H360, 4-H Clothes Horse Activity Guide

DRAFT HORSE
What you can do in this project:
• Explore different breeds and characteristics
• Learn conformation, selection and nutrition
• Practice harnessing and hitching

Grades  6-8
Resource: 4H181, Draft Horse

HORSELESS HORSE
What you can do in this project:
• You do not need a horse in this project
• Explore horse behavior, terms and breeds
• Identify body parts
• Learn grooming, saddling and bridling
• Learn about safety and equipment
• Learn about horsemanship
• Explore judging and oral reasons
• Learn selection, training and showing
• Practice trail riding skills
• Explore horse breeding, genetics and heredity
• Understand horse diseases and prevention

Resources: 06363, Scratching the Surface
CIR878, From Egg to Chick
MA, Meat Animal Project Record
06364, Testing Your Wings
4H281, Poultry for Fun & Food
A2880, Chicken Breeds & Varieties
06365, Flocking Together

POULTRY LDR OR YOUTH LDR
Resource: 06366, Poultry Helper’s Guide
POULTRY BANTAMS
What you can do in this project:
• Discover bantam breeds and breed characteristics
• Learn how to get started raising bantams
• Select and mate bantams
• Incubate and rear their young
• Learn to feed and house birds
• Fit and show bantams
Resources: NCR209, Bantams

POULTRY EXOTIC BIRDS (Ostrich, Emu)

POULTRY GAME BIRDS (Quail, Pheasant)

POULTRY MARKET

POULTRY PIGEONS
What you can do in this project:
• Learn about buying, banding and feeding
• Understand about proper housing and behavior
• Learn about grooming and exhibiting
Resource: 4H135, Pigeons

POULTRY TURKEYS
What you can do in this project:
• Learn about buying poultry
• Prepare a brooding area
• Raise range turkeys
• Feed and water turkeys
• Identify diseases
Resources: NCR060, Small Turkey Flock Management
MA, Meat Animal Project Record

POULTRY WATERFOWL
What you can do in this project:
• Learn about waterfowl breeds and parts
• Handle waterfowl properly
• Select and prepare waterfowl for market
• Incubate and exhibit waterfowl
Resources: A3311, Raising Waterfowl
MA, Meat Animal Project Record

RABBITS
What you can do in this project:
• Learn about selecting and handling rabbits
• Identify rabbit breeds and body parts
• Explore health issues and feeding
• Learn to select show rabbits
• Give oral reasons and judge rabbits
• Learn to tattoo
• Detect diseases
• Keep records of animals
• Learn about breeding and genetics
• Design a rabbitry
• Market rabbits
• Learn about disease prevention and rabbit registration
Resources: 08080, What’s Hoppening?
08081, Making Tracks
08082, All Ears

RABBITS LDR OR YOUTH LDR
Resource: 08083, Rabbit Helper’s Guide

RABBIT HOPPING
RABBIT HOPPING LDR OR YOUTH LDR

SHEEP 1
What you can do in this project:
• Identify sheep breeds and body parts
• Observe sheep behavior
• Identify uses of wool and other by-products
• Fit and show sheep
• Learn to identify sheep parasites
• Promote meat safety
• Judge wool
• Diagnose sheep diseases
• Use medications safely
• Explore careers
• Set sheep production goals
• Plan sheep related activities
• Market sheep products and teach others
• Plan a judging contest
• Explore careers
Resources: 06367, Lambs, Rams and You
4H421, Judging Breeding & Market Sheep
MA, Meat Animal Project Record
06368, Shear Delight
06369, Leading the Flock

SHEEP LDR OR YOUTH LDR
Resources: 06370, Sheep Helper’s Guide
194R, Sheep Resource Handbook

SWINE
What you can do in this project:
• Identify swine breeds, feeds and animal parts
• Practice judging market hogs
• Identify pork meat cuts
• Practice fitting and showing a hog
• 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
• Learn to make breeding and culling decisions
• Judge a class of breeding gilts
• Design a preventative herd health plan
• Manage a feeding program
Resources: 08065, The Incredible Pig
4H412, Judging Breeding & Market Swine
MA, Meat Animal Project Record
08066, Putting the Oink in the Pig
08067, Going Whole Hog

SWINE LDR OR YOUTH LDR
Resources: 08068, Swine Helper’s Guide
VETERINARY SCIENCE
What you can do in this project:
- Learn different breeds of animals
- Interpret animal behavior
- Identify feed nutrients
- Describe animal life stages and systems
- Create health records for your animal
- Conduct food safety experiments
- Discover importance of immunity and bio-security
- Consider ethics and animal welfare
- Investigate the importance of genetics
- Understand diseases that spread from animals to humans
- Learn about diversity of veterinary careers

Resources: 08048, From Airedales to Zebras
4H334, Adventure Notebook
4H131, The Normal Animal
08049, All Systems Go
4H048, Animal Disease
08050, On the Cutting Edge
4H133, Animal Health

COMMUNICATION ARTS
http://fyi.uwex.edu/wi4hprojects/arts-communication/

COMMUNICATIONS
What you can do in this project:
- Engage in non-verbal, verbal and written activities
- Strengthen your personal communication skills
- Encrypt codes, write songs and give directions
- Learn to become a confident communicator
- Present oral reasons, plan and present speeches
- Practice making good first impressions
- Polish your communication skills
- Explore communication careers
- Write résumés and interview for a job

Resources: 08156, Picking Up the Pieces
08157, Putting It Together
08158, The Perfect Fit

COMPUTER GRAPHIC DESIGN

CREATIVE WRITING
What you can do in this project:
- Explore language and creative expression
- Stimulate your creativity and self-expression
- Enrich your joy of book reading

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

COMMUNICATIONS LDR OR YOUTH LDR
Resources: 08051, Veterinary Science Helper’s Guide
4H192, Veterinary Science
4H323, The Normal Animal - Leader’s Guide

COMMUNICATION ARTS LDR OR YOUTH LDR

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

CREATIVE WRITING LDR OR YOUTH LDR

DEMONSTRATIONS
DEMONSTRATIONS LDR OR YOUTH LDR

SIGN LANGUAGE

SPEAKING
What you can do in this project:
- Plan, practice and present an effective speech
- Gain confidence in public speaking
- Plan, practice and present an effective demonstration

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

SPEAKING LDR OR YOUTH LDR

PERFORMING ARTS
http://fyi.uwex.edu/wi4hprojects/arts-communication/theatre-arts/

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

Resource: 4H265, Enter the Clowns

CLOWNING LDR OR YOUTH LDR

DANCE
DANCE LDR OR YOUTH LDR

JUGGLING
JUGGLING LDR OR YOUTH LDR

MUSIC
What you can do in this project:
- Gain a greater appreciation for music
- Explore different ways to participate
- Listen, perform and compose various types of music
- Teach others and make instruments

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

MUSIC LDR OR YOUTH LDR

PUPPETRY
PUPPETRY LDR OR YOUTH LDR

THEATRE ARTS
What you can do in this project:
- Study acting, sound, movement, voice and speech
- Learn different ways to play a scene
- Try pantomime, clowning and improvisation
- 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

THEATRE ARTS LDR OR YOUTH LDR

Wisconsin 4-H Project Guide (Rev. 7/2017) - 6 - 4-H 218
- 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

Resources: 08071, Become a Puppeteer!

THEATRE ARTS LDR OR YOUTH LDR
Resource: 08073, Theatre Arts Helper’s Guide

VISUAL ARTS
http://fyi.uwex.edu/wi4hprojects/arts-communication/

ART
What you can do in this project
- Learn art through cutting, pasting and drawing
- Explore sculpting and constructing with fibers
- Paint and print using different materials
- Explore art techniques, culture and history of art
- Learn artistic challenges in drawing, fiber arts and sculpting
- Develop graphic design techniques

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

ART LDR OR YOUTH LDR

BASKETRY
BASKETRY LDR OR YOUTH LDR

BLOCK PRINTING
What you can do in this project:
- Design and cut blocks from different materials
- Print designs on cloth and paper
- Create your own original designs

Resource: 4H156, Block Printing Member Guide

BLOCK PRINTING LDR OR YOUTH LDR
Resource: CIR008, Block Printing Leader Guide

CERAMICS
CERAMICS LDR OR YOUTH LDR

CREATIVE/CROSS STITCHERY
CREATIVE/CROSS STITCHERY LDR OR YOUTH LDR

DRAWING & PAINTING
What you can do in this project:
- Learn to draw with pencil, chalk, crayon, etc.
- Learn to blend and shade
- Make surface rubbings
- Paint with watercolor, oil and acrylics
- Mix colors
- Mat and frame your artwork

Resource: 4H169, Drawing & Painting

DRAWING & PAINTING LDR OR YOUTH LDR

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

FOLK ARTS LDR OR YOUTH LDR
Resource: NCR534, Folk Arts Leader Guide

BEADWORK
CALLIGRAPHY
FIBER ARTS
FLOWER CRAFTS
PRINT MAKING
STRING/WIRE ART
STUFFED ANIMALS
TIE DYEING
WEARABLE ART
WOOD ART

JEWELRY MAKING
JEWELRY MAKING LDR OR YOUTH LDR

LEATHERCRAFT
What you can do in this project:
- Learn about the characteristics and uses of leather
- Use tools and equipment
- Make patterns and original designs
- Explore various leathercraft techniques

LEATHERCRAFT LDR OR YOUTH LDR

MACRAMÉ
MACRAMÉ LDR OR YOUTH LDR

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

Resource: 4H158, Metal Enameling Members Guide

METAL ENAMELING LDR OR YOUTH LDR
Resource: CIR009, Metal Enameling Leader Guide

NEEDLEPOINT
NEEDLEPOINT LDR OR YOUTH LDR

PHOTOGRAPHY
What you can do in this project:
- Explore the camera and learn to use it properly
- Learn the basics of lighting and composition
- Learn the use of different light sources
- Shoot photos that tell a story
- Learn about camera adjustments
- Learn about film speed, shutter speed and aperture
- Take silhouettes, candids, action shots and others

Resource: CIR009, Metal Enameling Leader Guide

NEEDLEPOINT LDR OR YOUTH LDR
• 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

Resources: PC1, Focus on Photography
PC2, Controlling the Image
PC3, Mastering Photography

PHOTOGRAPHY LDR OR YOUTH LDR

POSTERS
POSTERS LDR OR YOUTH LDR

POTTERY
POTTERY LDR OR YOUTH LDR

RUBBER STAMPING
RUBBER STAMPING LDR OR YOUTH LDR

SCRAPBOOKING

VIDEOGRAPHY
What you can do in this project:
• Learn storytelling, editing and lighting
• Experiment with camera handling and editing
• Learn to plan a project with the use of sound and titles
• Show and review your production

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

WEAVING
WEAVING LDR OR YOUTH LDR

WOOD BURNING
WOOD BURNING LDR OR YOUTH LDR

FAMILY, HOME & HEALTH
http://fyi.uwex.edu/wi4hprojects/family-home-health/

CHILD DEVELOPMENT
What you can do in this project:
• Find out how you grow and develop
• Learn about the development of babies and toddlers
• Learn how to make toys safe for small children
• Learn how to take care of yourself and others
• See what makes your family special
• Discover how to match toys to ages of children
• Develop family rules
• Check for safety hazards
• 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

Resources: 08075, On My Own
08076, Growing With Others
08077, Growing in Communities

CHILD DEVELOPMENT LDR OR YOUTH LDR
Resource: 08078, Child Development Helper’s Guide

HOME ENVIRONMENT
What you can do in this project:
• Learn about home care
• Learn to sand and finish a simple wood item
• Make small home decorative items for the home
• Explore the world of home interior design
• Become more involved with activities around the home
• Learn to handle home tasks and entertain guests
• Refinish wood furnishings and make other home items
• Learn the principles of home design
• Learn scale, balance and proportion in home design
• Use the principles of design to arrange your home
• Create storage centers and restore furniture
• Focus on the application of design fundamentals
• Learn about purchasing furnishings for the home
• Restore or make a heritage item

Resources: 4H425, Exploring Your Home
4H426, Living With Others
4H427, Where I Live
4H465, In My Home

HOME ENVIRONMENT LDR OR YOUTH LDR

HEALTH
What you can do in this project:
• Practice first-aid skills to treat basic injuries
• Learn how to respond to someone who is choking
• Assemble a first-aid kit
• Identify your personal talent areas in health care
• Explore hygiene, nutrition and physical activities
• Share what you learn with others
• Design your own fitness plan
• Track your plan and review your progress
• Interview individuals in the health and fitness fields

Resources: 08174, First Aid in Action
08175, Staying Healthy
08176, Keeping Fit

HEALTH LDR OR YOUTH LDR

INTERGENERATIONAL PROGRAMS
What you can do in this project:
• Learn to understand older people better
• Let them share their stories and experiences
• Explore what happens as you grow older

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

INTERGENERATIONAL LDR OR YOUTH LDR
Resource: NCR548, Walk in My Shoes Leader Guide
CONSUMER SAVVY
What you can do in this project:
• Learn your shopping style
• Use the yellow pages to find goods and services
• Know the difference between wants and needs
• Write a savings and spending plan
• Start a savings account
• 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

Resources: 08030, The Consumer in Me
08031, Consumer Wise
08032, Consumer Roadmap

WORKFORCE READINESS LDR OR YOUTH LDR
Resource: 08192, Get in the Act! Take 1 Helper’s Guide

CONSUMER SAVVY LDR OR YOUTH LDR
Resource: 08033, Consumer Savvy Helper’s Guide

ENTREPRENEURSHIP
What you can do in this project:
• Practice the skills needed to be an entrepreneur
• Explore businesses, products, marketing and pricing
• Create a business plan and start your own business

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

WORKFORCE READINESS LDR OR YOUTH LDR
Resource: 08191, Get in the Act! Take 1 (with CD)

PERSONAL FINANCE
What you can do in this project:
• Learn money management skills
• Learn how to live on a budget
• 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

Resources: 07710, Money FUNdamentals
07711, Money Moves

FOODS AND NUTRITION
http://fyi.uwex.edu/wi4hprojects/family-home-health/foods-nutrition/

CAKE DECORATING 1
CAKE DECORATING 2
CAKE DECORATING 3
CAKE DECORATING LDR OR YOUTH LDR

CANDY MAKING
CANDY MAKING LDR OR YOUTH LDR

FOOD PRESERVATION 1
What you can do in this project:
• Learn the basics of preserving food safely
• Use UW-Extension Safe Food Preservation Series

Grades: 6-12
Resources: B0430, Canning Fruits Safely
B1159, Canning Vegetables Safely
B2909, Making Jams, Jellies & Fruit Preserves
B3278, Freezing Fruits & Vegetables

FOOD PRESERVATION 2
What can I do in this project:
• Continue learning food preservation techniques
• Use UW-Extension Safe Food Preservation Series

Grades: 6-12
Resources: B2267, Homemade Pickles & Relishes
B2605, Tomatoes Tart & Tasty
B3345, Canning Meat, Wild Game, Poultry & Fish
B3570, Canning Salsa Safely

FOOD PRESERVATION 3

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

Grades: 3-4
Resource: 07144, Six Easy Bites

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

Grades: 5-6
Resource: 07146, Tasty Tidbits
FOODS & NUTRITION 3
What you can do in this project:
• Learn to evaluate nutrition information and fad diets
• Develop your own exercise program
• Learn how to cook different cuts of meat
• Learn to divide large-quantity packages for family use
• Make baked chicken, breadsticks and stir-fried vegetables

Grades: 7-9
Resource: 07148, You’re the Chef

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

Grades: 10-12
Resource: 07150, Foodworks

FOODS & NUTRITION LDR OR YOUTH LDR

CLOTHING AND TEXTILES
http://fyi.uwex.edu/wi4hprojects/family-home-health/

CLOTHING 1
What you can do in this project:
• Identify sewing tools and machine parts
• Thread a sewing machine and identify fabrics
• Select and purchase a pattern
• Sort clothes for laundry and remove stains
• Donate a sewing project
• 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

Resources: 08060, Under Construction
08061, Fashion Forward
08062, Refine Design

CLOTHING LDR OR YOUTH LDR
Resource: 08063, Sewing Expressions Helper’s Guide

CROCHETING
What you can do in this project:
• Learn to select and purchase yarn, thread and equipment
• Explore crocheting and finishing techniques
• Understand care instructions for crocheted items

Resource: CC1403, Crochet Made Easy

CROCHETING LDR OR YOUTH LDR

KNITTING
What you can do in this project:
• Discover what to consider when buying yarn or tools
• Learn knitting and finishing techniques
• Correct knitting errors
• Learn how to care for your knitted items

Resource: CC1402, Knitting Made Easy

KNITTING LDR OR YOUTH LDR

QUILTING
QUILTING LDR OR YOUTH LDR

MECHANICAL SCIENCES
http://fyi.uwex.edu/wi4hprojects/mechanical-sciences/

AUTOMOTIVE
AUTOMOTIVE LDR OR YOUTH LDR

BICYCLES – ENG AND TECH
What you can do in this project:
• Learn the essentials for getting started safely
• Explore the basics toward lifelong cycling
• Learn safety, road rules and planning for a pleasant ride
• Choose a bike that’s right for you
• Practice bike maintenance
• Learn road rules

Resources: 08334, Bicycling for Fun
08335, Wheels in Motion

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

COMPUTERS
What you can do in this project:
• Learn about hardware, software and components
• Explore how computers work
• Learn the various programs and their features
• Visit the project’s interactive website
• Build and repair a computer
• Identify the components and how they work together
• Learn to upgrade and create connections
• Install operating systems

Grades: 6-8
• Discover how to create and manage networks
• Make decisions about network management
• Explore security issues and troubleshooting

Resource: 08346, Newbie Know How
08347, Inside the Box
08348, Peer to Peer

COMPUTERS LDR OR YOUTH LDR
Resource: 08349, Teens Teaching Tech

ELECTRICITY
What you can do in this project:
• Understand how to use electricity
• Identify electrical materials
• Wire a simple circuit
• Build a compass, flashlight, switch and electric motor
- Work with electrical equipment
- Learn to read circuit diagrams
- Build a circuit and measure voltages
- Communicate in Morse code
- Develop a basic electrical tool and supply kit
- Understand the symbols on wires and cables
- Locate your home wiring system
- Identify electrical and electronic parts and devices
- Learn how to solder and prepare parts for assembly
- Assemble a circuit using a transistor

Resources: 06848, Magic of Electricity
06849, Investigating Electricity
06850, Wired for Power
06851, Entering Electronics

ELECTRICITY LDR OR YOUTH LDR

LEGOS
LEGOS LDR OR YOUTH LDR

MECHANICAL SCIENCES

MODEL CARS
MODEL RAILROAD

MODEL ROCKETRY
MODEL ROCKETRY LDR OR YOUTH LDR

SCALE MODELS
What you can do in this project:
- Assemble and create scale models of trains, cars, etc.
- Learn how to obtain materials you need in construction
- Learn to display your model and judge it

Resource: 4H424, Guidelines for Building Scale Models

SCALE MODELS LDR OR YOUTH LDR

SMALL ENGINES
What you can do in this project:
- Learn the basics of small engines
- Explore external engine parts and tools
- Identify the uses of small engines and safety issues
- Explore the internal parts of engines
- Learn about engine sizes and safety issues
- Explore different jobs related to small engines
- Tear down and rebuild an engine
- Learn to use diagnostic tools
- Research rules and regulations in using small engines

Resources: 08186, Crank It Up!
08187, Warm It Up!
08188, Tune It Up!

SMALL ENGINES LDR OR YOUTH LDR
Resource: 08189, Small Engines Helper’s Guide

TRACTORS
What you can do in this project:
- Learn and identify parts of the tractor
- Understand the basics of tractor maintenance
- Learn about different fuels and engine cooling systems
- Research different safety features and learn safety rules
- Practice farm and tractor safety
- Understand the mechanics of engines
- Identify accessory equipment
- 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
- Focus on safety and maintenance
- Identify and work with operational systems

Resources: 4H961, Starting Up: Getting to Know Your Tractor
4H962, Tractor Operations: Gearing Up for Safety
4H963, Moving Out: Learning About Your Tractor & Farm Machinery
4H964, Learning More: Learning About Agricultural Tractors & Equipment

TRACTORS LDR OR YOUTH LDR

WOODWORKING
What you can do in this project:
- Learn safety practices when working with wood and tools
- Use various hand tools, e.g., hammer and saw
- Identify types of nails and wood
- Sand and paint a piece of wood
- Identify functions of various tools
- Practice safety techniques
- Select a project to build, e.g., birdhouse or foot stool
- Use a screwdriver and combination square
- Compare different types of hinges
- Enlarge scale-drawn woodworking plans
- Use a hand plane and build a laminated cutting board
- Compare different grades of plywood
- 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

Resources: 06875, Measuring Up
06876, Making the Cut
06877, Nailing It Together
06878, Finishing Up

WOODWORKING LDR OR YOUTH LDR
Resource: 06879, Woodworking Helper’s Guide

NATURAL RESOURCES & ENVIRONMENTAL EDUCATION
http://fyi.uwex.edu/wi4hprojects/natural-sciences/

ADVENTURES
What you can do in this project:
- Learn how to camp safely in all weather conditions
- Investigate camping equipment and clothing
• Build a campfire and cook a meal
• Practice tying knots and first aid
• Learn to use a map and compass

Resource: 4H444, *Introduction to Adventures*

**ADVENTURES LDR OR YOUTH LDR**
Resource: 4H443, *4-H Adventure Project*

**ASTRONOMY**

**ASTRONOMY LDR OR YOUTH LDR**

**BACKPACKING & HIKING**

What you can do in this project:
• Plan a day hike, select items and plan the food
• Learn to organize and pack a backpack
• Select appropriate clothing
• Prepare a first-aid kit
• Learn to use a compass
• Prepare for dangerous weather
• 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
• 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

Resources: 08043, *Hiking Trails*
08044, *Camping Adventures*
08045, *Backpacking Expeditions*

**BACKPACKING & HIKING LDR OR YOUTH LDR**

**BEES**

**BICYCLING – ENVIRON ED**

What you can do in this project:
• Learn how and where to bicycle safely
• Plan a bicycle camping trip
• Design and build a bicycle obstacle course
• Conduct a bike maintenance check

Resource: 4H446, *Bicycling*

**BIRDS**

**CANOEING**

What you can do in this project:
• Learn how and where to canoe safely
• Select and care for equipment
• Explore aquatic environments
• Plan a canoe camping trip
• Canoe a river

Resource: 4H447, *Canoeing*

**CONSERVATION**

**CONSERVATION LDR OR YOUTH LDR**

**ENTOMOLOGY (INSECTS)**

What you can do in this project:
• Learn about insects, their behavior and life history
• Discover the parts of an insect’s body
• Collect and compare insects
• Explore how insects communicate and move
• Learn how an insect protects itself
• Explore insect habitats
• Create an insect display
• Build an insect extractor
• Investigate entomology careers
• 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

Resources: 08392, *Project Butterfly Wings Youth Guide*
08392, *Project Butterfly Wings Youth Guide*

**EXPLORING YOUR ENVIRONMENT**

What you can do in this project:
• Explore the four elements of life: sun, air, water and soil
• Use your senses to explore the environment
• Connect to the environment through plants and animals
• Learn how the environment is affected by pollution
• Explore wildlife habitats and tracking
• Learn about groundwater
• Research pollination and how it works
• 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

Resources: 08411, *Earth’s Capacity*
08410, *Ecosystems Services*

**EXPLORING ENVIRONMENT LDR OR YOUTH LDR**

Resources: 08412, *Exploring Your Environment Facilitator Guide*
PUB-CE-456, *Education Connection*
PUBL-ER-001, *WI Endangered & Threatened Species*

**FISHING**

What you can do in this project:
• Identify types of tackle
• Organize a tackle box
• Identify different types of bait and fish in your area
• Learn to take proper care of your catch
• 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
• Learn to reassemble a fishing reel
• Make artificial flies and lures
• Modify fishing equipment
• Investigate fishing careers

Resources: 07598, *Take the Bait*
FISHING LDR OR YOUTH LDR

FORESTRY
What you can do in this project:
• Identify forest types, forest products and trees
• Age trees by counting rings
• Understand forest competition
• Find a state forest
• Describe how leaves affect rainfall
• Learn how trees move water from soil to canopy
• Diagram a leaf
• Understand major forest changes and their impact
• Select urban tree planting sites
• Recognize different tree fruits
• Create a community forest map
• Identify forest biomes by continent
• Identify an unknown tree using a tree key

Resources: 08038, Follow the Path
08039, Reach for the Canopy
08040, Explore the Deep Woods

FORESTRY LDR OR YOUTH LDR
Resource: 08041, Forestry Helper’s Guide

GEOLOGY
GEOLOGY LDR OR YOUTH LDR

HOME ENERGY
HOME ENERGY LDR OR YOUTH LDR

RECYCLING
What you can do in this project:
• Learn about the impact of solid waste on the environment
• Learn to reduce, reuse and recycle

Resources: 4H362, Recycling for Reuse

RECYCLING LDR OR YOUTH LDR

SCIENCE DISCOVERY
SCIENCE DISCOVERY LDR OR YOUTH LDR

WATER
What you can do in this project:
• Identify water conservation and pollution issues
• Explore issues in your home, community or school
• Select an issue to focus on
• Develop and implement a plan

Resources: 4H855, Give Water A Hand – Action Guide

WATER LDR OR YOUTH LDR
Resource: 4H850, Give Water A Hand Leader Guide

WEATHER
WEATHER LDR OR YOUTH LDR

WILDFLOWERS
What you can do in this project:
• Learn about wildflowers in your neighborhood
• Learn to identify wildflowers and how to collect them
• Discover how humans affect wildflowers

Resources: 4H392, Wildflowers

WILDLIFE
WILDLIFE LDR OR YOUTH LDR

WILDLIFE HABITAT

WINTER TRAVEL
What you can do in this project:
• Discover winter travel on cross-country skis and snowshoes
• Select and take care of equipment and clothing
• Experience a winter overnight campout
• Discover how trees and plants prepare for winter

Resources: 4H448, Winter Travel

SHOOTING SPORTS EDUCATION
http://fyi.uwex.edu/wi4hshootingsports/

SHOOTING SPORTS LDR OR YOUTH LDR
Resource: Each Shooting Sports Leader should attend a Certification Training to receive the WI Shooting Sports Basic 4-H Guidelines. For more information see Shooting Sports webpage.

AIR PISTOL
What you can do in this project:
• Explore different air pistols
• Learn basic safety rules and guidelines
• Learn marksmanship and shooting procedures

Grades: 3-12

AIR PISTOL LDR OR YOUTH LDR
Resource: Each Pistol Leader should attend a Certification Training to receive the Pistol Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see Shooting Sports webpage.

AIR RIFLE
What you can do in this project:
• Explore different types of air rifles
• Learn basic safety rules and range commands
• Develop marksmanship
• Learn various shooting positions used in competition

Grades: 3-12

AIR RIFLE LDR OR YOUTH LDR
Resource: Each Air Rifle Leader should attend a Certification Training to receive the Air Rifle Guide and WI Shooting Sports Basic 4-H Guidelines.

ARCHERY
What you can do in this project:
• Learn the fundamentals of archery marksmanship
• Learn rules and safety guidelines
• Make archery equipment
• Shoot with sights and different bows

Grades: 3-12
Resource: 751, Archery Member Record Book

ARCHERY LDR OR YOUTH LDR
Resource: Each Archery Leader should attend a Certification Training to receive the Archery Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see Shooting Sports webpage.

HUNTING
What you can do in this project:
• Learn the history, philosophy and laws of hunting
• Learn to plan and equip yourself for a hunt

Grades: 3-12

HUNTING LDR OR YOUTH LDR

MUZZLELOADING
What you can do in this project:
• Explore muzzleloading history
• Study different muzzleloading guns and accessories
• Learn how to clean a muzzleloader
• Learn safety issues

Ages: Only 12 years old and above can shoot powder burning guns

MUZZLELOADING LDR OR YOUTH LDR
Resource: Each Muzzleloading Leader should attend a Certification Training to receive the Muzzleloading Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see Shooting Sports webpage.

PISTOL (smallbore .22)
What you can do in this project:
• Explore the history of different types of pistols
• Learn basic safety rules and range commands
• Develop marksmanship and shooting procedures

Ages: Only 12 years old and above can shoot powder burning guns

PISTOL LDR (smallbore .22)
Resource: Each Pistol Leader should attend a Certification Training to receive the Pistol Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see Shooting Sports webpage.

RIFLE
What you can do in this project:
• Explore rifle history and the different models
• Learn to sight-in your rifle and score targets
• Learn various shooting positions used in competition
• Learn safe handling procedures and range rules

Ages: Only 12 years old and above can shoot powder burning guns

RIFLE LDR OR YOUTH LDR
Resource: Each Rifle Leader should attend a Certification Training to receive the Rifle Guide and WI Shooting Sports Basic 4-H Guidelines. For more information see Shooting Sports webpage.

SHOOTING SPORTS Basic 4-H Guidelines
FLOWERS
What you can do in this project:
• Identify flower parts and their functions
• Plant flowers and make flower arrangements
• Give a presentation on flowers
• Prepare a flower exhibit
• 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
• Design a plant experiment
• Make a landscape plan
• Write instructions on how to force bulbs
• Compare different fertilizers: organic and chemical

Resources: 07162, Gardening: See Them Sprout
4H1301A, Forcing Spring Flowering Bulbs
A2935, Evaluating & Judging Flowers & Indoor Plants
07163, Gardening: Let’s Get Growing
07164, Gardening: Take Your Pick

FLOWERS LDR OR YOUTH LDR
Resource: 4H1041W, Gardening Helper’s Guide

FRUITS
What you can do in this project:
• Produce fruits from apples to berries
• Select the best fruit cultivar for your home garden
• Produce fruits such as pears and grapes
• Learn about different varieties of cultivars

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

FRUITS LDR OR YOUTH LDR

HERBS
HERBS LDR OR YOUTH LDR

HOME GROUNDS
What you can do in this project:
• Learn about seeding a lawn
• Study proper lawn care and maintenance
• Explore fertilization and pest management techniques
• Learn the importance of planting new trees and shrubs
• Explore variety selection and appropriate placement
• Learn basic maintenance: pruning and fertilization
• Explore landscape planning
• Make a plan and put it on paper
• Select, place and plant trees and shrubs
• Maintain your home grounds

Resource: 4H321, 4-H Lawn Care
Resources: A3067, Selecting, Planting & Caring for Shade Trees
A1730, Evergreens – Planting & Care
G1923, Planning & Designing Your Home Landscape

HOME GROUNDS LDR OR YOUTH LDR

HORTICULTURE
HORTICULTURE LDR OR YOUTH LDR

HOUSE PLANTS
What you can do in this project:
• Identify plant parts and their functions
• Grow house plants and start a plant from a cutting
• Make a dish garden
• Prepare house plants for exhibit
• 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: 07162, Gardening: See Them Sprout
4H328, Propagating & Growing House Plants
07163, Gardening: Let’s Get Growing
07164, Gardening: Take Your Pick

HOUSE PLANTS LDR OR YOUTH LDR
Resource: 4H1041W, Gardening Helper’s Guide

PLANT CRAFTS
PLANT CRAFTS LDR OR YOUTH LDR

SOIL SCIENCE
SOIL SCIENCE LDR OR YOUTH LDR

VEGETABLES
What you can do in this project:
• Identify plant parts and their functions
• Explore germination and start a plant from a cutting
• Grow vegetables in containers
• Plan an outdoor garden
• Prepare a vegetable exhibit for show
• Learn about plant needs and soil testing
• Start new plants and grow transplants
• Build a compost pile and use mulches
• Grow plants in a cold frame
• Make a site analysis and landscape plan
• Compare organic and chemical fertilizers
• Research various insect control methods

Resources: 07162, Gardening: See Them Sprout
4H395, Organically Grown – Handbook
4H409, Nature’s Herbs
A3306, Exhibiting & Judging Vegetables
VEGETABLES LDR OR YOUTH LDR
Resource: 4H1041W, Gardening Helper’s Guide

STEM (Science, Technology, Engineering & Math)
http://fyi.uwex.edu/wi4hprojects/stem-science-technology-engineering-math/

STEM EXPLORING
STEM LDR OR YOUTH LDR

AEROSPACE
What you can do in this project:
• Build an introductory level rocket
• Compare birds and airplanes
• Make a space helmet
• 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
• Build, exhibit and launch model rockets
• Test a paper hang glider
• Make a flight simulator
• Demonstrate why rockets fly
• Organize a kite-flying contest
• 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

Resources: 06842, Pre-Flight
06843, Lift Off
06844, Reaching New Heights
06845, Pilot in Command

AEROSPACE LDR OR YOUTH LDR
Resource: 06846, Aerospace Adventures Helper’s Guide

GEOSPATIAL
What you can do in this project:
• Discover ways of thinking about geographic positions
• Learn about navigational tools: GIS, GPS, compasses
• Learn to measure distances
• Learn how to collect data
• Combine data with geographical positions
• Make maps of home, neighborhood and community
• Use multi-layered maps to attempt to solve problems
• Find ways to reduce traffic congestion
• Pinpoint pollution sources

Resources: CD8358, Exploring Spaces, Going Places CD
(“Getting Out” section)

GEOSPATIAL LDR OR YOUTH LDR

ROBOTICS
What you can do in this project:
• Explore and learn about robots arms
• Learn about robot form, function and design
• Build robots from everyday items
• Explore and learn about robots that move with legs, wheels and underwater.
• Learn about basic electrical power and motors, and gear system
• Build robots from everyday items
• Explore and learn about robots sensors and analog and digital systems
• Build basic circuits
• Study basic elements of programming and instruction

Resources: 08431, Junk Drawer Robotics Track Level 1: Give Robots a Hand
08435, 4-H Robotics Youth Notebook
08432, Junk Drawer Robotics Track Level 2: Robots on the Move
08433, Junk Drawer Robotics Track Level 3: Mechatronics

ROBOTICS LDR OR YOUTH LDR

SCIENCE
SCIENCE LDR OR YOUTH LDR

WIND ENERGY
Leader Resources

OTHER PROGRAMS

SAFETY
SAFETY LDR OR YOUTH LDR

INTERNATIONAL PROGRAMS

INTERNATIONAL
What you can do in this project:
• Explore the world around you through maps
• Track weather in various parts of the world
• Make your family tree by talking with relatives
• Explore where your ancestors came from

Grades: 3-12

INTERNATIONAL LDR OR YOUTH LDR