**2015-2017 Pierce County 4-H Project Guide**

**A Two Year Project Guide**

4-H is a Youth Development Program of University of Wisconsin-Extension

# Welcome to Pierce County 4-H,

# The largest youth organization in Wisconsin!

# You're among the 155,000 youth and 25,000 adult volunteers who will grow in

# life skills through 4‑H this year

 4‑H is open to anyone regardless of race, color, creed, sex, national origin or handicap. Boys and girls in town can enjoy 4‑H as much as kids in the country. Part of University of Wisconsin‑Extension, 4‑H is a program where youth learn together in all kinds of projects, events and activities.

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 Currently there are 22 4‑H clubs in Pierce County under the guidance of adult volunteer leaders. Club general meetings are usually held once a month in homes, schools, churches or community centers. 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 that help you get started. An adult leader is usually available to help you with your project work. This guide lists the projects supported by UW‑ Extension. Projects vary from aerospace to woodworking, from birds to rabbits, from clothing to small engines.

 Besides projects, you can get involved in events and activities year round. Some of the more popular activities around the state are music and drama festivals, clothing and food revues, animal judging contests, camps, county and state fairs, citizenship and community services, tours, sports, cultural exchanges, speeches and demonstrations.

 ***UWEX Pierce County 4-H contact us at:***

 Direct Line: 715-273-6781

 Fax Line: 715-273-6859

 Web Address: <http://pierce.uwex.edu>

**The 4-H Pledge**

**Here’s to a rewarding 4-H year. Let’s start by 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.”**



University of Wisconsin-Extension, U. S. Dept. of Agriculture and Wisconsin counties cooperating. UW-Extension provides equal opportunities in employment and programming, including Title IX and ADA. To ensure equal access, please make requests for reasonable accommodations as soon as possible prior to the scheduled program, service or activity. If you need this material in another format, please contact the Extension Office.

**2015-2017 4-H LITERATURE POLICY**

The Extension Office is granted a budget for operating expenses each year, and one of the line items is for bulletins and publications. Due to the rising cost of 4-H literature over the last several years, the Pierce County 4-H Adult Advisors Council and county government have consulted and established a policy for this 4-H project year:

Each 4-H club in Pierce County will receive literature for members at a rate of $4.00 per member (i.e.: All State Allstars 4-H club has 20 members, they will be allocated $4.00 x 20 members = $80.00 worth of literature). This basic allocation is contributed by the Pierce County Extension budget and will pay this basic cost. If the All State Allstars wish to order more than $80.00 worth of literature, the individual 4-H Clubs will pay from their club accounts, the extra cost at the time literature is picked up from the Extension Office. There will be no charge for member’s record book forms.

Literature for volunteer project leaders will also be subsidized at the $4.00 level per registered volunteer. Club orders for leader bulletins in excess of $4.00 per leader are free.

Each 4-H family is receiving the 2015-2017 Project Guide. The guide this year includes the cost of each piece of 4-H literature and a summary sheet for literature orders. We ask each family to carefully consider their literature needs.

How to Order Literature:

**Use pencil – this is a two-year guide.**

1. Please indicate the number of copies needed of each piece.
2. Using the Literature Order Form at the back of this guide, total your order.
3. Turn in your summary sheet to your club leader or enrollment coordinator. **(They will summarize the order for the club and hand it in to the Extension Office by November 1st as well as let you know if you owe anything for your literature.)**
4. Literature should begin arriving after January 1.

 **2015-2017 4-H LITERATURE ORDER TIPS:**

Tip #1

Animal Science projects such as Dairy 1, 2, 3 or Dog 1, 2, 3...these workbooks are designed to last a member for three years (i.e.: Cat 1 is for grades 3-5 or your first three years in the Cat project.)

Tip #2

Plan ahead...think carefully if you plan to use every piece of literature offered in a project area, don't just order everything because it is there. Does your family still have copies of any project books?

Tip #3

Not sure or curious about a new project....Stop in at the Extension Office or ask an older member to see a copy of a project book. Do some investigating to see if the literature will help you learn life skills this coming year.

Tip #4

 4-H literature can be photocopied...try ordering a "club copy" for use by project members in your club. Photocopying extra copies in your local neighborhood might be an option.

Tip #5

Some 4-H literature can be accessed from your local library and from your State 4-H website. <http://www.uwex.edu/ces/4h/>

## Wisconsin 4-H Youth Protection Program

A system of additional forms and an orientation meeting designed to both protect children and your privacy rights as an adult. Specifically, all new enrolling adult volunteer leaders will need to complete a Volunteer Application Form which authorizes a records check for convictions related to child safety, sign a “Volunteer Behavior Expectations For Wisconsin 4-H Youth Development” Form, and attend a Volunteer Orientation session. There will be strict confidentiality in the handling of all records.

**SPECIAL NOTE FOR RE-ENROLLING LEADERS:** If you are an adult volunteer and see the Volunteer Screening page, then it has been 4 years since the last time a background check has been completed. You need to check over the answers to the questions and correct as needed. This page will only appear every 4 years. Click **Continue** when done.

**ENROLLMENT DEADLINE for Pierce County 4-H: November 1st.**

Youth Leaders are usually eighth grade youth and higher who wish to help younger or new project members. These youth have experience in the subject matter of the project. This is not the same as taking the Youth Leadership Project 10201.

REMINDER: All new enrolling adult leaders must complete the WI 4-H Youth Protection Program orientation as offered by the Pierce County 4-H Adult Advisors, Inc. Volunteers may attend an orientation session by checking with their club leader for a schedule or by stopping in at the Extension Office.

Re-enrolling leaders MUST sign the “Volunteer Behavior Expectations for Wisconsin

4-H Youth Development” form (done online) annually.

### WISCONSIN 4-H MEMBERSHIP POLICY

Youth in kindergarten are eligible to enroll in the Wisconsin 4-H Youth Development program. Kindergarten, first and second graders will participate in 4-H as Cloverbuds. Youth will continue to be eligible for membership through the next 4-H year following their graduation from high school.

Cloverbuds - the State recognizes Cloverbuds as 4-H members.

Home Schooling - Children who are home schooled will participate in 4-H in their declared grade.

Graduation - High school seniors, and those participating as members in the year following high school graduation, will be eligible to participate through the entire 4-H year.

District and State events - participation in district and state 4-H events and recognition programs will be based upon the member’s grade.

National events - participation in national 4-H events will be based upon the age established for the event.

No person shall on the grounds of race, color, national origin, sex, handicap status, religion, or political affiliation be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any aspect of the Pierce County 4‑H Adult Advisors Inc., including, but not limited to, all programs and activities.

### HOW TO SELECT PROJECTS

Make a list of things you like to do or want to learn about. Talk over your list with parents, leaders and friends. Then compare your list to this Pierce County guide. Descriptions after each project in this guide are not the project requirements. What you decide to take as part of your project work is up to you. Some projects have more than one unit. You're not always required to take the first unit of a project. You can spend more than one year in each project unit. In some projects, one unit naturally progresses to the next; it is recommended to take the units in progression. Check the grade recommendations on certain projects to see where you fit. Examples:

1. You're a 3rd or 4th grader with no previous woodworking experience, so you would normally enroll in the first unit, Woodworking I.

2. You're a 7th grader interested in woodworking but have not taken Woodworking I. You may or may not enroll in the first unit, depending upon previous woodworking experience, natural ability, personal preferences and the judgment of parents and leaders.

3. You're interested in studying nature. In a project such as Naturespace, where there are units on fishing, trees, insects, birds and wildflowers, there is no natural progression. So the unit in which you enroll is strictly a matter of preference.

**Other important project selection reminders:**

* To the left of each project unit you'll find computer enrollment code number for members and one for leaders. Code numbers ending in zero usually are for leaders.
* No member should use project code numbers ending in zero. When signing up for a youth leader (eighth grade or above**)** all project codes end in a “9”.
* Those members falling into the K-2nd grade range should ONLY enroll in 10351 Cloverbuds.
* It's required that Explorer members (3rd grade or 1st year member grade 4), take Exploring 10301. They may take **only one** additional project.
* Any 4‑H member taking five or more projects must first get approval from your General Club Leader.

***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 the following URL: http://www.uwex.edu/ces/4h/

On these pages, you’ll find descriptions for statewide projects, Internet resources and links of interest, county fair exhibit suggestions, state specialist contacts, and other suggested 4-H resources.

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!

**INSTRUCTIONS FOR COMPLETING THE**

### PIERCE COUNTY 4‑H ONLINE ENROLLMENT

**To enroll in the Pierce County 4‑H program, a boy or girl must enroll online through https://wi.4honline.com. Adult volunteers are asked to sign-up as leaders and must follow the Wisconsin 4-H Youth Protection procedures.**

**If you were in Pierce County 4-H last year you can review and update your information and select your projects online through** [**http://wi.4honline.com**](http://wi.4honline.com)**. If this is your first year in Pierce County 4-H, you will need to sign up for an account through** [**http://wi.4honline.com**](http://wi.4honline.com) **to enter your information and select projects.**

#### FOR RE‑ENROLLING

1. Login to your account at wi.4honline.com

**![C:\Users\jdemulling\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\5LWFESCX\traffic-157617_640[1].png]()Forgot your username or password**?

Call the Extension Office – 273-6781

Do **NOT** create a new account!

1. Click the orange button **Continue to Family**
2. At the bottom of the next screen, click the button **Enroll for 2016-2017**
3. Youth 17 or older? You will be asked if you wish to enroll as a youth or an adult – if graduating from 4-H and want to continue as an Adult Leader, choose **Enroll As Adult.** Otherwise, select **Enroll as Youth.**
4. You will now see the Personal Information that you entered when you first enrolled. Review and make any corrections. When you are done, click on **Continue**.
5. Next is the Additional Information screen where you will need to accept the agreements and answer the Photo Release and Accommodations questions. Click **Continue** when done.
6. The Health Form for members is optional at enrollment, but you could be asked to complete it in the future if you attend any events that require one. Click **Continue** when done.
7. If you are an adult volunteer and see the Volunteer Screening page, then it has been 4 years since the last time a background check has been completed. You need to check over the answers to the questions and correct as needed. This page will only appear every 4 years. Click **Continue** when done.
8. On the Participation → Club screen, confirm the correct club is listed. If you serve in a volunteer role (but not as a project leader) click on **Edit** and select the volunteer type. Click on **Update** to save the change. Click on **Continue** when done
9. On the Participation → Projects screen, review the projects listed, these are the projects you took last year. You MUST add new projects and delete (click **Edit → Delete**) those you are no longer in, and check to see if you need to change the grade level of a project (delete old and add new. After making sure all your projects are listed correctly, click on **Submit Enrollment**.

**FOR NEW ENROLLEES**

*\*\*If you are a* ***new member in an existing family****, log in to your current account and skip to step 8\*\**

You will need a computer, internet access, and a valid email address that you use/check.

1. Go to [**http://wi.4honline.com**](http://wi.4honline.com) (there’s no “www” in that address). Read the instructions carefully, then scroll to the bottom of the page.
2. Click “I need to set up a profile”. A drop down menu will appear. Select **Pierce County**, then type in your **valid** family e-mail address. (Do NOT select the county you live in and make sure you don’t click on “Price County”)
**The E-mail address entered will be the account login for the entire family**. It must be valid in order for you to have access to your enrollment information. You will use this email next year for re-enrollment, so make sure it’s one you use.
3. Confirm your e-mail address, type in your family’s last name.
4. Create your own password – must use letters and numbers/symbols, minimum of 8 characters long.
5. Click on **Create Login**
6. **Family Information Page,** fill in all your personal information completely to complete your family profile. DO NOT check the “Update member records with the same address” box at this time.
7. Click on the “Continue” button at the bottom of the page.
8. **Member List** Page, under the “Add A New Family Member” drop down box, select “youth” or “adult” and click on **Add Member.**
9. Fill in all information for the member.
10. **Additional Information Page** - Please read each statement on this page carefully. Completion of each agreement is required for participation in the program.
11. New Leaders: complete the **Volunteer Screening Page**
12. **On the Clubs tab:** Select the correct club from the drop down menu and click **Add Club**.
13. **On the Projects tab:** Select the projects you are signing up for. Do not select Project Materials at this time. Click on **Add Project**.
14. After you have entered all your information, click on **Submit Enrollment** button and you are done!

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# YOUTH LEADERSHIP

## YOUTH LEADERSHIP LDR #10200

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

07904, *Leadership Mentor Guide for Grades 6-12*

## YOUTH LEADERSHIP #10201 Grd 3-12

What you can do in this project:

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

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

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

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

## YOUTH LEADERSHIP YTH LDR #10209

# YOUNGER MEMBERS

**EXPLORING LDR #10300**

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

**EXPLORING #10301 Grd 3** -or Grd 4 if 1st yr member

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*

**EXPLORING YTH LDR #10309**

**CLOVERBUDS LDR Grd K-2**

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

**CLOVERBUDS #10351**

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

Resources: 05561, *Cloverbuds – Activity Sheets*

 05562, *Cloverbuds – Program Record*

 05563, *Cloverbuds – Participation Summary*

**CLOVERBUDS YTH LDR #10359**

SERVICE LEARNING & CITIZENSHIP

**HISTORY & HERITAGE LDR #10401**

**HISTORY & HERITAGE #10411**

**HISTORY & HERITAGE YTH LDR #10419**

**FAMILY TIMES LDR #10500**

**FAMILY TIMES #10501**

**FAMILY TIMES YTH LDR #10509**

**SERVICE LEARNING LDR #10750**

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

**SERVICE LEARNING 1 #10751 Grd 5-8**

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

Resource: 08182, *Agents of Change + CD*

**SERVICE LEARNING 2 #10752 Grd 9-12**

What you can do in this project:

* Plan and implement your own service project
* Share your project plan and outcome with others
* Conduct an evaluation of your project

Resource: 08183, *Raise Your Voice + CD*

**SERVICE LEARNING YTH LDR #10759**

**CITIZENSHIP LDR #10800**

Resource: 08154, *Citizenship Guide’s Handbook*

**CITIZENSHIP #10801 Grd 4-12**

What you can do in this project:

* Discover and discuss public issues
* Plan a project to change or improve your community

Resource: 08153, *Citizenship Adventure Kit*

**CITIZENSHIP YTH LDR #10809**

SELF-DETERMINED

**SELF-DETERMINED LDR #10900**

**SELF-DETERMINED #10901 Grd 3-13**

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 YTH LDR #10909**

ANIMAL SCIENCES

**BEEF LDR #20100**

Resources: 08146, *Beef Helper’s Guide*

 117R, *Beef Resource Handbook*

**BEEF 1 #20101 Grd 3-5**

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

Resources: 08143, *Bite Into Beef*

 4H450, *Judging Breeding & Market Cattle*

 MA, *Meat Animal Project Record*

**BEEF 2 #20102 Grd 6-8**

What you can do in this project:

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

Resources: 08144, *Here’s the Beef*

 MA, *Meat Animal Project Record*

**BEEF 3 #20103 Grd 9-12**

What you can do in this project:

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

Resources: 08145, *Leading the Charge*

 MA, *Meat Animal Project Record*

**BEEF SALE #20106**

**BEEF YTH LDR #20109**

**DAIRY GOAT LDR #20150**

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

**DAIRY GOAT 1 #20151 Grd 3-5**

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

Resource: 08352, *Getting Your Goat*

**DAIRY GOAT 2 #20152 Grd 6-8**

What you can do in this project:

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

Resource: 08353, *Stepping Out*

**DAIRY GOAT 3 #20153 Grd 9-12**

What you can do in this project:

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

Resource: 08354, *Showing the Way*

**DAIRY GOAT YTH LDR #20159**

**MEAT GOAT LDR #20190**

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

**MEAT GOAT 1 #20191 Grd 3-4**

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

Resource: 07909, *Just Browsing*

**MEAT GOAT 2 #20192 Grd 5-8**

What you can do in this project:

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

Resource: 07910, *Get Growing with Meat Goats*

**MEAT GOAT 3 #20193 Grd 9-12**

What you can do in this project:

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

Resource: 07911, *Meating the Future*

**MEAT GOAT YTH LDR #20199**

**DAIRY LDR #20200**

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

**DAIRY 1 #20201 Grd 3-5**

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

Resources: 08161, *Cowabunga*

 CANADA1, *Showmanship…Leading to Win*

 4H501, *Dairy Cattle Judging Made Easy – CD*

 LDR, *Lifetime Dairy Record*

**DAIRY 2 #20202 Grd 6-8**

What you can do in this project:

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

Resources: 08162, *Mooving Ahead*

 CANADA2, *Preparing to Lead*

 MPA, *Managerial Project Agreement*

**DAIRY 3 #20203 Grd 9-12**

What you can do in this project:

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

Resources: 08163, *Rising to the Top*

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

**DAIRY YTH LDR #20209**

**HORSE LDR**

Resources: 08058, *Horse Helper’s Guide*

**HORSE 1 #20301 Grd 3-5**

What you can do in this project:

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

Resources: 08053, *Giddy Up & Go*

 CO200, *Horses & Horsemanship*

 CO201, *Horse Science*

 4H180, *Pleasure Riding*

**HORSE 2 #20302 Grd 6-8**

What you can do in this project:

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

Resources: 08054/01519Y, *Head, Heart & Hooves*

08056, *Riding the Range*

**HORSE 3 #20303 Grd 9-12**

What you can do in this project:

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

Resources: 08055, *Stable Relationships*

08057, *Jumping to New Heights*

**HORSE YTH LDR #20309**

**DRAFT HORSE #20311 Grd 6-8**

What you can do in this project:

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

Resource: 4H181, *Draft Horse*

**THERAPEUTIC RIDING #20314**

**CLOTHES HORSE LDR #20380**

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

**CLOTHES HORSE #20381 Grd 3-12**

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 YTH LDR #20389**

**LLAMAS LDR #20390**

**LLAMAS 1 #20391 Grd 3-5**

**LLAMAS 2 #20392 Grd 6-8**

**LLAMAS 3 #20393 Grd 9-12**

**LLAMAS YTH LDR #20399**

**SWINE LDR #20400**

Resources: 08068, *Swine Helper’s Guide*

 134R, *Swine Resource Handbook*

**SWINE 1 #20401 Grd 3-5**

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

Resources: 08065, *The Incredible Pig*

 4H412, *Judging Breeding & Market Swine*

 MA, *Meat Animal Project Record*

**SWINE 2 #20402 Grd 6-8**

What you can do in this project:

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

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

 MA, *Meat Animal Project Record*

**SWINE 3 #20403 Grd 9-12**

What you can do in this project:

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

Resources: 08067, *Going Whole Hog*

 MA, *Meat Animal Project Record*

**SWINE SALE #20406**

**SWINE YTH LDR #20409**

**POULTRY LDR #20500**

Resource: 06366, *Poultry Helper’s Guide*

**POULTRY 1 #20501 Grd 3-5**

What you can do in this project:

* Identify poultry breeds
* Learn parts of the bird
* Learn parts and functions of the egg
* Learn how to select and handle poultry
* Fit and show poultry

Resources: 06363, *Scratching the Surface*

 CIR878, *From Egg to Chick*

 MA, *Meat Animal Project Record*

**POULTRY 2 #20502 Grd 6-8**

What you can do in this project:

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

Resources: 06364, *Testing Your Wings*

 4H281, *Poultry for Fun & Food*

 A2880, *Chicken Breeds & Varieties*

 MA, *Meat Animal Project Record*

**POULTRY 3 #20503 Grd 9-12**

What you can do in this project:

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

Resources: 06365, *Flocking Together*

 MA, *Meat Animal Project Record*

**WATERFOWL #20504 Grd 3-12**

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*

**TURKEYS #20505 Grd 3-12**

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*

**BANTAMS #20506 Grd 3-12**

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*

 MA, *Meat Animal Project Record*

**PIGEONS #20507 Grd 3-12**

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 YTH LDR #20509**

**SHEEP LDR #20600**

Resources: 06370, *Sheep Helper’s Guide*

 194R, *Sheep Resource Handbook*

**SHEEP 1 #20601 Grd 3-5**

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*

**SHEEP 2 #20602 Grd 6-8**

What you can do in this project:

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

Resources: 06368, *Shear Delight*

 MA, *Meat Animal Project Record*

**SHEEP 3 #20603 Grd 9-12**

What you can do in this project:

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

Resources: 06369, *Leading the Flock*

 MA, *Meat Animal Project Record*

**SHEEP SALE #20606**

**SHEEP YTH LDR #20609**

**CATS LDR #20650**

Resource: 08151, *Cat Helper’s Guide*

**CATS 1 #20651 Grd 3-5**

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

Resource: 08148, *Purr-fect Pals*

**CATS 2 #20652 Grd 6-8**

What you can do in this project:

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

Resource: 08149, *Climbing Up!*

**CATS 3 #20653 Grd 9-12**

What you can do in this project:

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

Resource: 08150, *Leaping Forward*

**CATS YTH LDR #20659**

**DOGS LDR #20700**

Resources: 08169, *Dog Helper’s Guide*

 4H458, *4-H Dog Judging Guidelines*

**DOGS 1 #20701 Grd 3-5**

What you can do in this project:

* Learn basic skills for dog care and training
* Discover different dog breeds
* Study and identify dog body parts
* Learn how to keep a dog healthy and groomed

Resources: 08166, *Wiggles and Wags*

 4H436, *The Basics of Training Your Dog*

**DOGS 2 #20702 Grd 6-8**

What you can do in this project:

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

Resources: 08167, *Canine Connection*

 4H439, *Dog Obedience – Novice & Beyond*

**DOGS 3 #20703 Grd 9-12**

What you can do in this project:

* 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 YTH LDR #20709**

**CANINE MANAGEMENT LDR #20710**

**CANINE MANAGEMENT #20711**

**CANINE MANAGEMENT YTH LDR #20719**

**LEADER DOG LDR #20720**

**LEADER DOG #20721**

**LEADER DOG YTH LDR #20729**

**RABBITS LDR #20750**

Resource: 08083, *Rabbit Helper’s Guide*

**RABBITS 1 #20751 Grd 3-5**

What you can do in this project:

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

Resource: 08080, *What’s Hoppening?*

**RABBITS 2 #20752 Grd 6-8**

What you can do in this project:

* Learn to select show rabbits
* Give oral reasons and judge rabbits
* Learn to tattoo
* Detect diseases
* Keep records of animals

Resource: 08081, *Making Tracks*

**RABBITS 3 #20753 Grd 9-12**

What you can do in this project:

* Learn about breeding and genetics
* Design a rabbitry
* Market rabbits
* Learn about disease prevention and rabbit registration

Resource: 08082, *All Ears*

**RABBITS YTH LDR #20759**

**VETERINARY SCIENCE LDR**

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

 4H323, *The Normal Animal - Leader’s Guide*

**VETERINARY SCIENCE 1 #20801 Grd 3-5**

What you can do in this project:

* 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*

**VETERINARY SCIENCE 2 #20802 Grd 6-8**

What you can do in this project:

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

Resources: 08049, *All Systems Go*

 4H048, *Animal Disease*

**VETERINARY SCIENCE 3 #20803 Grd 9-12**

What you can do in this project:

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

Resources: 08050, *On the Cutting Edge*

 4H133, *Animal Health*

**VETERINARY SCIENCE YTH LDR #20809**

**CAVIES LDR #20860**

**CAVIES #20861**

**CAVIES YTH LDR #20869**

**CAGE BIRDS LDR #20870**

**CAGE BIRDS #20871**

**CAGE BIRDS YTH LDR #20879**

**OTHER SMALL ANIMALS LDR #20910**

Resource: 06362, *Pet Helper’s Guide*

**OTHER SMALL ANIMALS #20911 Grd 3-12**

Resource: 06359, *Pet Pals*

Resource: 06360, *Scurrying Ahead*

Resource: 06361, *Scaling the Heights*

**OTHER SMALL ANIMALS YTH LDR #20919**

ARTS & COMMUNICATION

**PHOTOGRAPHY LDR #30000**

**PHOTOGRAPHY 1 #30001 Grd 3-5**

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

Resource: PC1, *Focus on Photography*

**PHOTOGRAPHY 2 #30002 Grd 6-8**

What you can do in this project:

* Learn about camera adjustments
* Learn about film speed, shutter speed and aperture
* Take silhouettes, candids, action shots and others

Resource: PC2, *Controlling the Image*

**PHOTOGRAPHY 3 #30003 Grd 9-12**

What you can do in this project:

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

Resource: PC3, *Mastering Photography*

**SCRAPBOOKING #30004**

**VIDEOGRAPHY #30005 Grd 6-12**

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

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

**PHOTOGRAPHY YTH LDR #30009**

**COMMUNICATIONS LDR #30100**

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*

**COMMUNICATIONS 1 #30101 Grd 3-5**

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

Resource: 08156, *Picking Up the Pieces*

**COMMUNICATIONS 2 #30102 Grd 6-8**

What you can do in this project:

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

Resource: 08157, *Putting It Together*

**COMMUNICATIONS 3 #30103 Grd 9-12**

What you can do in this project:

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

Resource: 08158, *The Perfect Fit*

**COMMUNICATIONS YTH LDR #30109**

**DEMONSTRATIONS LDR #30110**

**DEMONSTRATIONS #30111**

**DEMONSTRATIONS YTH LDR #30119**

**SPEAKING LDR #30120**

**SPEAKING #30121 Grd 3-12**

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 YTH LDR #30129**

**CREATIVE WRITING LDR #30140**

**CREATIVE WRITING #30141 Grd 3-12**

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*

**CREATIVE WRITING YTH LDR #30149**

**ARTS & CRAFTS LDR #30300**

**ART 1 #30301 Grd 3-6**

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

Includes: ceramics, tye dye, stencil painting, mosaic, string/art wire, calligraphy, plastercraft, rosemaling, decoupage, quilling, carving, basketry, creative cross stitchery, pottery, macramé, stained glass, bead work, paper cutting, applique, latch hook, needlepoint, embroidery, sketchbook, candles and mobiles.

Resources: 4H472, *Palette of Fun Member Sheet & Intro*

**ART 2 #30302 Grd 7-12**

What you can do in this project:

* Explore art techniques, culture and history of art
* Learn artistic challenges in drawing, fiber arts and

sculpting

* Develop graphic design techniques

Includes: ceramics, tye dye, stencil painting, mosaic, string/

art wire, calligraphy, plastercraft, rosemaling, decoupage,

quilling, carving, basketry, creative cross stitchery, pottery,

macramé, stained glass, bead work, paper cutting, applique,

latch hook, needlepoint, embroidery, sketchbook, candles

and mobiles.

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

 08141, *Advanced Visual Arts: Portfolio Pathways*

**ARTS & CRAFTS YTH LDR #30309**

**LEATHERCRAFT LDR #30310**

Resource: CIR006, *Adventures in Leathercraft Ldrs Guide*

**LEATHERCRAFT #30311 Grd 3-12**

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

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

**LEATHERCRAFT YTH LDR #30319**

**BLOCK PRINTING LDR #30330**

Resource: CIR008, *Block Printing Leader Guide*

**BLOCK PRINTING #30331 Grd 5-12**

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 YTH LDR #30339**

**METAL ENAMELING LDR #30340**

Resource: *CIR009, Metal Enameling Leader Guide*

**METAL ENAMELING #30341 Grd 5-12**

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 YTH LDR #30349**

**DRAWING & PAINTING LDR #30350**

**DRAWING & PAINTING #30351 Grd 3-12**

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 YTH LDR #30359**

**FOLK ARTS LDR #30400**

Resource: NCR534, *Folk Arts Leader Guide*

**FOLK ARTS #30401 Grd 5-12**

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 YOUTH LEADER #30409**

**LATINO CULTURAL ARTS LDR #30600**

Resource: 08180DD, *QueRico! La Cultura Bilingual Leader Guide*

**LATINO CULTURAL ARTS #30601 Grd K-8**

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 YTH LDR #30609**

**THEATRE ARTS LDR #30700**

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

**THEATRE ARTS 1 #30701 Grd 3-5**

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

Resource: 08070, *Play the Role*

**THEATRE ARTS 2 #30702 Grd 6-8**

What you can do in this project:

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

Resource: 08071, *Become a Puppeteer!*

**THEATRE ARTS 3 #30703 Grd 9-12**

What you can do in this project:

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

Resource: 08072, *Set the Stage*

**THEATRE ARTS YTH LDR #30709**

**CLOWNING LDR #30710**

**CLOWNING #30711 Grd 3-12**

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 YTH LDR #30719**

**PUPPETRY LDR #30720**

**PUPPETRY #30721**

**PUPPETRY YTH LDR #30729**

**MUSIC LDR #30760**

Resource: 4H351, *Sing Along Songbook*

**MUSIC #30761 Grd 3-12**

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 YTH LDR #30769**

**DANCE LDR #30770**

**DANCE #30771**

**DANCE YTH LDR #30779**

**COMPUTERS LDR #30800**

Resource: 08349, *Teens Teaching Tech*

**COMPUTERS 1 #30801 Grd 3-5**

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

Resource: 08346, *Newbie Know How*

**COMPUTERS 2 #30802 Grd 6-8**

What you can do in this project:

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

Resource: 08347, *Inside the Box*

**COMPUTERS 3 #30803 Grd 9-12**

What you can do in this project:

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

Resource: 08348, *Peer to Peer*

**COMPUTERS YTH LDR #30809**

FAMILY, HOME & HEALTH

**INTERGENERATIONAL PROGRAMS LDR #40000**

**INTERGENERATIONAL PROGRAMS #40001** Gr3-12

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

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

**INTERGENERATIONAL YTH LDR #40009**

**CHILD DEVELOPMENT LDR #40100**

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

**CHILD DEVELOPMENT 1 #40101 Grd 3-5**

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

Resource: 08075, *On My Own*

**CHILD DEVELOPMENT 2 #40102 Grd 6-8**

What you can do in this project:

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

Resource: 08076, *Growing With Others*

**CHILD DEVELOPMENT 3 #40103 Grd 9-13**

What you can do in this project:

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

Resource: 08077, *Growing in Communities*

**CHILD DEVELOPMENT YTH LDR #40109**

**CLOTHING LDR #40200**

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

**CLOTHING 1 #40201 Grd 3-5**

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

Resources: 08060, *Under Construction*

 07198, *Let’s Sew! Beginner’s Sewing Guide*

**CLOTHING 2 #40202 Grd 6-8**

What you can do in this project:

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

Resource: 08061, *Fashion Forward*

**CLOTHING 3 #40203 Grd 9-12**

What you can do in this project:

* Use specialized sewing tools or equipment
* Combine patterns to create a design
* Create outdoor wear
* Design and embellish a garment
* Use a computer to print on fabric

Resource: 08062, *Refine Design*

**CLOTHING YTH LDR #40209**

**QUILTING LDR #40210**

**QUILTING #40211**

**QUILTING YTH LDR #40219**

**CROCHETING LDR #40300**

**CROCHETING #40301 Grd 3-12**

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 YOUTH LDR #40309**

**CAKE DECORATING LDR #40390**

**CAKE DECORATING #40391**

**CAKE DECORATING YTH LDR #40399**

**FOODS & NUTRITION LDR #40400**

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

**FOODS & NUTRITION 1 #40401 Grd 3-4**

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

Resource: 07144, *Six Easy Bites*

**FOODS & NUTRITION 2 #40402 Grd 5-6**

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

Resource: 07146, *Tasty Tidbits*

**FOODS & NUTRITION 3 #40403 Grd 7-9**

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

Resource: 07148, *You’re the Chef*

**FOODS & NUTRITION 4 #40404 Grd 10-12**

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

Resource: 07150, *Foodworks*

**FOODS & NUTRITION YTH LDR #40409**

**FOOD PRESERVATION LDR #40500**

**FOOD PRESERVATION #40501 Grd 3-12**

What you can do in this project:

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

Resources: B0430, *Canning Fruits Safely*

 B1159, *Canning Vegetables Safely*

 B2909, *Making Jams, Jellies & Fruit Preserves*

 B3278, *Freezing Fruits & Vegetables*

 B2267, *Homemade Pickles & Relishes*

 B2605, *Tomatoes Tart & Tasty*

B3345, *Canning Meat, Wild Game, Poultry & Fish*

 B3570, *Canning Salsa Safely*

**FOOD PRESERVATION YTH LDR #40509**

**PERSONAL FINANCE LDR #40650 Grd 6-8**

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

**PERSONAL FINANCE 1 Grd 6-8**

What you can do in this project:

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

Resource: 07710, *Money FUNdamentals*

**PERSONAL FINANCE 2 #40652 Grd 9-12**

What you can do in this project:

* Learn about wants and needs, values and goal

setting

* Explore ways to use and save money
* Learn the benefits and drawbacks of credit
* Survey and select financial services

Resource: 07711, *Money Moves*

**PERSONAL FINANCE YTH LDR #40659**

**ENTREPRENEURSHIP LDR #40660**

Resource: 08036, *Entrepreneurship Helper’s Guide*

**ENTREPRENEURSHIP #40661 Grd 7-12**

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

Resource: 08035, *Entrepreneurship: Be the E*

**ENTREPRENEURSHIP YTH LDR #40669**

**WORKFORCE READINESS LDR #40670**

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

**WORKFORCE READINESS #40671 Grd 6-9**

What you can do in this project:

* Explore what it takes to get your first job
* Discover how to assess job possibilities in the community
* Create job scenarios
* Recognize your learning styles and personal qualities

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

**WORKFORCE READINESS YTH LDR #40679**

**HOME ENVIRONMENT LDR #40700**

**HOME ENVIRONMENT 1 #40701 Grd 3-5**

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

Resource: 4H425, *Exploring Your Home*

**HOME ENVIRONMENT 2 #40702 Grd 6-7**

What you can do in this project:

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

Resource: 4H426, *Living With Others*

**HOME ENVIRONMENT 3 #40703 Grd 8-9**

What you can do in this project:

* Learn the principles of home design
* Learn scale, balance and proportion in home design
* Use the principles of design to arrange your home
* Create storage centers and restore furniture

Resource: 4H427, *Where I Live*

**HOME ENVIRONMENT 4 #40704 Grd 10-12**

What you can do in this project:

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

Resource: 4H465, *In My Home*

**HOME ENVIRONMENT YTH LDR #40709**

**KNITTING LDR #40800**

**KNITTING #40801 Grd 3-12**

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 YTH LDR #40809**

**CONSUMER SAVVY LDR #40850**

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

**\*\* IF YOU WANT TO BRING A PURCHASED GARMENT TO THE FAIR – YOU MUST SIGN UP FOR THE CLOTHING PROJECT (#40201-40203), ON PAGE 15.**

**CONSUMER SAVVY 1 #40851 Grd 3-5**

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

Resource: 08030, *The Consumer in Me*

**CONSUMER SAVVY 2 #40852 Grd 6-9**

What you can do in this project:

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

Resource: 08031, *Consumer Wise*

**CONSUMER SAVVY 3 #40853 Grd 10-12**

What you can do in this project:

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

Resource: 08032, *Consumer Roadmap*

**CONSUMER SAVVY YTH LDR #40859**

**HEALTH LDR #40900**

**HEALTH 1 #40901 Grd 3-5**

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

Resource: 08174, *First Aid in Action*

**HEALTH 2 #40902 Grd 6-8**

What you can do in this project:

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

Resource: 08175, *Staying Healthy*

**HEALTH 3 #40903 Grd 9-12**

What you can do in this project:

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

Resource: 08176, *Keeping Fit*

**HEALTH YOUTH LEADER #40909**

MECHANICAL SCIENCES

**AUTOMOTIVE LDR #50100**

**AUTOMOTIVE #50101**

**AUTOMOTIVE YTH LDR #50109**

**BICYCLING LDR #50200**

Resources: 08336, *Bicycle Helper’s Guide*

 08399, *Bicycle Fix It! (DVD)*

**BICYCLING 1 #50201 Grd 3-4**

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

Resource: 08334, *Bicycling for Fun*

**BICYCLING 2 #50202 Grd 4-6**

What you can do in this project:

* Choose a bike that’s right for you
* Practice bike maintenance
* Learn road rules

Resource: 08335, *Wheels in Motion*

**BICYCLING 3 #50203 Grd 7-12**

**BICYCLING YTH LDR #50209**

**ELECTRICITY LDR #50300**

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

**ELECTRICITY 1 #50301 Grd 4-5**

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

Resource: 06848, *Magic of Electricity*

**ELECTRICITY 2 #50302 Grd 6-7**

What you can do in this project:

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

Resource: 06849, *Investigating Electricity*

**ELECTRICITY 3 #50303 Grd 8-9**

What you can do in this project:

* Develop a basic electrical tool and supply kit
* Understand the symbols on wires and cables
* Locate your home wiring system

Resource: 06850, *Wired for Power*

**ELECTRICITY 4 #50304 Grd 10-12**

What you can do in this project:

* Identify electrical and electronic parts and devices
* Learn how to solder and prepare parts for assembly
* Assemble a circuit using a transistor

Resource: 06851, *Entering Electronics*

**ELECTRICITY YTH LDR #50309**

**LEGOS LDR #50420**

**LEGOS #50421**

**LEGOS YTH LDR #50429**

**SMALL ENGINES LDR #50500**

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

**SMALL ENGINES 1 #50501 Grd 3-5**

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

Resource: 08186, *Crank It Up!*

**SMALL ENGINES 2 #50502 Grd 6-8**

What you can do in this project:

* Explore the internal parts of engines
* Learn about engine sizes and safety issues
* Explore different jobs related to small engines

Resource: 08187, *Warm It Up!*

**SMALL ENGINES 3 #50503 Grd 9-12**

What you can do in this project:

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

Resource: 08188, *Tune It Up!*

**SMALL ENGINES YTH LDR #50509**

**SCALE MODELS LDR #50600**

**SCALE MODELS #50601 Grd 3-12**

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 YTH LDR #50609**

**TRACTORS LDR #50700**

**TRACTORS 1 #50701 #50701 Grd 3-4**

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

 (little or no experience)

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

**TRACTORS 2 #50702 Grd 5-6**

What you can do in this project:

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

 (little or no experience)

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

**TRACTORS 3 #50703 Grd 7-9**

What you can do in this project:

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

 (some prior experience)

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

*& Farm Machinery*

**TRACTORS 4 #50704 Grd 10-12**

What you can do in this project:

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

 (some prior experience)

Resource: 4H964, *Learning More: Learning About Agricultural*

*Tractors & Equipment*

**TRACTORS YTH LDR #50709**

**WOODWORKING LDR #50800**

Resource: 06879, *Woodworking Helper’s Guide*

**WOODWORKING 1 #50801 Grd 3-4**

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

Resource: 06875, *Measuring Up*

**WOODWORKING 2 #50802 Grd 4-6**

What you can do in this project:

* Identify functions of various tools
* Practice safety techniques
* Select a project to build, e.g., birdhouse or foot stool
* Use a screwdriver and combination square

Resource: 06876, *Making the Cut*

**WOODWORKING 3 #50803 Grd 6-8**

What you can do in this project:

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

Resource: 06877, *Nailing It Together*

**WOODWORKING 4 #50804 Grd 9-12**

What you can do in this project:

* Use a table saw, router, powered circular

saw and sander

* Learn to make more difficult joints
* Evaluate exotic and veneer woods
* Create inlays and overlays
* Test various adhesives

Resource: 06878, *Finishing Up*

**WOODWORKING YTH LDR #50809**

**SNOWMOBILING LDR #50900**

**SNOWMOBILING #50901**

**SNOWMOBILING YTH LDR #50909**

**OFF-HIGHWAY VEHICLES LDR #50950**

**OFF-HIGHWAY VEHICLES #50951**

**OFF-HIGHWAY VEHICLES YTH LDR #50959**

NATURAL RESOURCES & ENVIRONMENTAL

EDUCATION

**EXPLORING YOUR ENVIRONMENT LDR #60000**

Resources: 08412, *Exploring Your Environment*

*Facilitator Guide*

 PUB-CE-456, *Education Connection*

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

*Species*

**EXPLORING YOUR ENVIRONMENT 1 #60001**

Grd 5-7

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

Resource: 08411, *Earth’s Capacity*

**EXPLORING YOUR ENVIRONMENT 2 #60002** Grd 8-10

What you can do in this project:

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

Grades: 8-10

**EXPLORING YOUR ENVIRONMENT 3 #60003** Grd 11-12

What you can do in this project:

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

Resource: 08410, *Ecosystems Services*

**WILDFLOWERS #60005 Grd 3-12**

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

Resource: 4H392, *Wildflowers*

**BIRDS #60006**

**EXPLORING YOUR ENVIRONMENT YTH LDR #60009**

**FORESTRY LDR #60050**

Resource: 08041, *Forestry Helper’s Guide*

**FORESTRY 1 #60051 Grd 3-5**

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

Resource: 08038, *Follow the Path*

**FORESTRY 2 #60052 Grd 6-8**

What you can do in this project:

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

Resource: 08039, *Reach for the Canopy*

**FORESTRY 3 #60053 Grd 9-12**

What you can do in this project:

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

Resource: 08040, *Explore the Deep Woods*

**MAPLE SYRUP #60054**

**FORESTRY YTH LDR #60059**

**ADVENTURES LDR #60100**

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

**ADVENTURES #60101 Grd 3-12**

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*

**WINTER TRAVEL #60102 Grd 3-12**

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

Resource: 4H448, *Winter Travel*

**CANOEING #60103 Grd 3-12**

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*

**CAMPING #60105**

**DOWNHILL SKIING #60107**

**CROSS COUNTRY SKIING #60108**

**ADVENTURES YTH LDR #60109**

**BACKPACKING & HIKING LDR #60120**

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

**BACKPACKING & HIKING 1 #60121 Grd 3-5**

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

Resource: 08043, *Hiking Trails*

**BACKPACKING & HIKING 2 #60122 Grd 6-8**

What you can do in this project:

* Plan a camping trip
* Select equipment, including shelter
* Plan a camping trip menu and prepare supplies
* Practice “Leave No Trace” principles while hiking
* Study various organism habitats

Resource: 08044, *Camping Adventures*

**BACKPACKING & HIKING 3 #60123 Grd 9-12**

What you can do in this project:

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

Resource: 08045, *Backpacking Expeditions*

**BACKPACKING & HIKING YTH LDR #60129**

**ENTOMOLOGY (INSECTS) LDR #60200**

Resource: 08443, *Teaming with Insects: Facilitator Guide
08393, Project Butterfly Wings Facilitator Guide*

**ENTOMOLOGY (INSECTS) 1 #60201 Grd 3-5**

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

Resource: *08440, Teaming with Insects Level 1
08392, Project Butterfly Wings Youth Guide*

**ENTOMOLOGY (INSECTS) 2 #60202 Grd 6-8**

What you can do in this project:

* Learn how an insect protects itself
* Explore insect habitats
* Create an insect display
* Build an insect extractor
* Investigate entomology careers

Resource: *08441, Teaming with Insects Level 2
08392, Project Butterfly Wings Youth Guide*

**ENTOMOLOGY (INSECTS) 3 #60203 Grd 9-12**

What you can do in this project:

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

Resource: *08442, Teaming with Insects Level 3*

**BEES #60204**

**ENTOMOLOGY YTH LDR #60209**

**CONSERVATION LDR #60260**

**CONSERVATION #60261**

**CONSERVATION YTH LDR #60269**

**SHOOTING SPORTS LDR #60300**

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

**SHOOTING SPORTS YTH LDR #60309**

**ARCHERY LDR #60310**

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 webpage.

Resource: 751, *Archery Member Record Book*

**ARCHERY #60311 Grd 3-12**

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

**ARCHERY YTH LDR #60319**

**AIR PISTOL LDR #60320**

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 webpage.

**RIFLE LDR #60330**

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 webpage.

**RIFLE AND PISTOL #60331**

What you can do in this project:

* Explore rifle history and the different models
* Learn to sight-in your rifle and score targets
* Learn various shooting positions used in
* competition
* Learn safe handling procedures and range rules

Ages: Only 12 years old and above can shoot powder

 burning guns

Resource: 750, *Rifle Member Record Book*

753*, Pistol Member Record book*

**RIFLE AND PISTOL YTH LDR #60339**

**HUNTING LDR #60340**

**HUNTING #60341 Grd 3-12**

What you can do in this project:

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

**HUNTING YTH LDR #60349**

**SHOTGUN LDR #60350**

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 webpage.

**SHOTGUN #60351**

What you can do in this project:

* Learn the basic safety issues with shotgun handling
* Learn shooting fundamentals
* Learn the proper way to carry a shotgun

Ages: Only 12 years old and above can shoot powder

burning guns

Resource: 752, *Shotgun Member Record Book*

**SHOTGUN YTH LDR #60359**

**MUZZLELOADING LDR #60360**

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 webpage.

**MUZZLELOADING #60361**

What you can do in this project:

* Explore muzzleloading history
* Study different muzzleloading guns and

accessories

* Learn how to clean a muzzleloader
* Learn safety issues

Ages: Only 12 years old and above can shoot powder

 burning guns

**MUZZLELOADING YTH LDR #60369**

**AIR RIFLE LDR #60370**

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

**PISTOL LDR (smallbore .22) #60380**

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 webpage.

**WILDLIFE LDR #60410**

**WILDLIFE #60411**

**WILDLIFE HABITAT #60412**

**TAXIDERMY #60414**

**WILDLIFE YTH LDR #60419**

**WEATHER LDR 60430**

**WEATHER #60431**

**WEATHER YTH LDR #60439**

**RECYCLING LDR #60450**

**RECYCLING #60451 Grd 3-12**

What you can do in this project:

* Learn about the impact of solid waste on the

environment

* Learn to reduce, reuse and recycle

Resource: 4H362, *Recycling for Reuse*

**RECYCLING YTH LDR #60459**

**HOME ENERGY LDR #60460**

**HOME ENERGY #60461**

**HOME ENERGY YTH LDR #60469**

**WATER LDR #60470**

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

**WATER #60471 Grd 3-12**

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

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

**BOATING #60473**

**WATER SAFETY #60474**

**WATER YTH LDR #60479**

**GEOLOGY LDR #60680**

**GEOLOGY #60681**

**GEOLOGY YTH LDR #60689**

**FISHING LDR #60800**

Resource: 07601, Fishing Adventures- Helper’s Guide

**FISHING 1 #60801 Grd 3-5**

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

Resource: 07598, *Take the Bait*

**FISHING 2 #60802 Grd 6-8**

What you can do in this project:

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

Resource: 07599, *Reel in the Fun*

**FISHING 3 #60803 Grd 9-12**

What you can do in this project:

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

Resource: 07600, *Cast into the Future*

**FISHING YTH LDR #60809**

**ASTRONOMY LDR #60910**

**ASTRONOMY #60911**

**ASTRONOMY YTH LDR #60919**

PLANT & SOIL SCIENCES

**CROPS LDR #70000 Grd 3-12**

**CORN (CROPS 1) #70001**

What you can do in this project:

* Learn about variety selection, germination and

planting

* Learn about nutrients, harvesting and storage
* Explore uses and marketing strategies for corn

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

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

 RS1, *Record Sheet – Crops Management*

**FORAGE (CROPS 2) #70002 Grd 3-12**

What you can do in this project:

* Establish and manage a forage crop
* Scout fields for pests, diseases and nutrition

shortages

* Take an accurate forage sample
* Study growing techniques

Resources: 4H349, *Pest Scouting Alfalfa*

 4H440, *Marketing Your 4-H Crops*

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

 RS1, *Record Sheet – Crops Management*

**SMALL GRAINS (CROPS 3) #70003 Grd 3-12**

What you can do in this project:

* Explore types of grasses, including wheat, oats

and barley

* Learn about growing conditions and nutrients
* Practice integrated pest management
* Compare production costs and marketing

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

 4H440, *Marketing Your 4-H Crops*

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

 RS1, *Record Sheet – Crops Management*

**SOYBEANS (CROPS 4) #70004**

**WEED MANAGEMENT (CROPS 5) #70005**

**OTHER CROPS #70006**

**CROPS YTH LDR #70009**

**FRUITS LDR #70100**

**FRUITS #70101 Grd 3-12**

What you can do in this project:

* Produce fruits from apples to berries
* Produce fruits such as pears and grapes
* Learn about different varieties of cultivars
* Select the best fruit cultivar for your home garden

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*

A1656, *Growing Grapes in Wisconsin*

A2072, *Growing Pears in Wisconsin*

**OTHER FRUITS #70104**

**FRUITS YTH LDR #70109**

**HERBS LDR #70150**

**HERBS #70151**

**HERBS YTH LDR #70159**

**VEGETABLES LDR #70200**

Resource: 07166, *Gardening Helper’s Guide*

**VEGETABLES 1 #70201 Grd 3-5**

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

Resources: 07162, *Gardening: See Them Sprout*

 4H395, *Organically Grown – Handbook*

 4H409, *Nature’s Herbs*

 A3306, *Exhibiting & Judging Vegetables*

**VEGETABLES 2 #70202 Grd 6-8**

What you can do in this project:

* Learn about plant needs and soil testing
* Start new plants and grow transplants
* Build a compost pile and use mulches

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

**VEGETABLES 3 #70203 Grd 9-12**

What you can do in this project:

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

Resource: 07164, *Gardening: Take Your Pick*

**VEGETABLES YTH LDR #70209**

**HOUSE PLANTS LDR #70300**

Resources: 4H1041W, *2016 Gardening: Helper’s Guide*

07166, *Gardening Helper’s Guide*

**HOUSE PLANTS 1 #70301 Grd 3-5**

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

Resources: 07162, *Gardening: See Them Sprout*

 4H328, *Propagating & Growing House Plants*

**HOUSE PLANTS 2 #70302 Grd 6-8**

What you can do in this project:

* Learn about plant seeds and soil
* Select and start new plants and grow transplants
* Plant a terrarium
* Examine plants for insects and diseases

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

**HOUSE PLANTS 3 #70303 Grd 9-12**

What you can do in this project:

* Take a tour of a horticulture business
* Design a plant experiment
* Teach others how to grow house plants
* Compare different fertilizers: organic and chemical

Resource: 07164, *Gardening: Take Your Pick*

**HOUSE PLANTS YTH LDR #70309**

**PLANT CRAFTS LDR #70350**

**PLANT CRAFTS #70351 Grd 3-12**

What you can do in this project:

* Learn to harvest plants
* Use different drying techniques
* Learn how to use plant materials
* Learn how to make dried arrangements,

corsages, etc.

Resources: 4H330, *Plant Crafts*

 4H453, *Plant Crafts Supplement*

**PLANT CRAFTS YTH LDR #70359**

**FLOWERS LDR #70400**

Resource: 07166, *Gardening Helper’s Guide*

**FLOWERS 1 #70401 Grd 3-5**

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

Resources: 07162, *Gardening: See Them Sprout*

 4H1301A, *Forcing Spring Flowering Bulbs*

 A2935, *Evaluating & Judging Flowers &*

*Indoor Plants*

**FLOWERS 2 #70402 Grd 6-8**

What you can do in this project:

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

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

**FLOWERS 3 #70403 Grd 9-12**

What you can do in this project:

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

Resource: 07164, *Gardening: Take Your Pick*

**FLOWERS YTH LDR #70409**

**HOME GROUNDS LDR #70500**

**HOME GROUNDS 1 #70501 Grd 3-5**

What you can do in this project:

* Learn about seeding a lawn
* Study proper lawn care and maintenance
* Explore fertilization and pest management techniques

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

**HOME GROUNDS 2 #70502 Grd 6-8**

What you can do in this project:

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

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

 A1730, *Evergreens – Planting & Care*

**HOME GROUNDS 3 #70503 Grd 9-12**

What you can do in this project:

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

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

**HOME GROUNDS YTH LDR #70509**

**SOIL SCIENCE LDR #70610**

**SOIL SCIENCE #70611**

**SOIL SCIENCE YTH LDR #70619**

STEM (Science, Technology, Engineering & Math

**STEM LDR #80100**

Resource: 08384, The Power of the Wind Facilitator Guide

**STEM WIND ENERGY #80102**

Resource: 08383, The Power of the Wind Youth Guide

**STEM YTH LDR #80109**

Resource: 08384, The Power of the Wind Facilitator Guide

**AEROSPACE LDR #80100**

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

**AEROSPACE 1 #80111 Grd 3**

What you can do in this project:

* Build an introductory level rocket
* Compare birds and airplanes
* Make a space helmet

Resource: 06842, *Pre-Flight*

**AEROSPACE 2 #80112 Grd 4-5**

What you can do in this project:

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

Resource: 06843, *Lift Off*

**AEROSPACE 3 #80113 Grd 6-8**

What you can do in this project:

* Build, exhibit and launch model rockets
* Test a paper hang glider
* Make a flight simulator
* Demonstrate why rockets fly
* Organize a kite-flying contest

Resource: 06844, *Reaching New Heights*

**AEROSPACE 4 #80114 Grd 9-12**

What you can do in this project:

* Design and build rockets and box kites
* Build an altitude tracker
* Plan a flight route
* Discover the effects of gravity
* Explore life in space and aerospace careers

Resource: 06845, *Pilot in Command*

**AEROSPACE YTH LDR #80119**

**GEOSPATIAL LDR #80120**

**GEOSPATIAL #80121 Grd 4-12**

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 date
* Make maps of home, neighborhood, and community
* Use multi-layered maps to solve problems
* Pinpoint pollution sources

Resource: CD8358, *Exploring Spaces, Going Places CD*

 (“Getting Out” section)

 (“On the Trail” section)

 (“Reaching Your Destination” section)

**GEOSPATIAL YTH LDR #80129**

**ROBOTICS LDR #80130**

**ROBOTICS 1 #80131 Grd 3-5**

What you can do in this project:

* Explore and learn about robots arms
* Learn about robot form, function and design
* Build robots from everyday items

Resource: 08431, *Junk Drawer Robotics Track Level 1:*

*Give Robots a Hand
08435, 4-H Robotics Youth Notebook*08430, *Virtual Robotics Track* DVD

**ROBOTICS 2 #80132 Grd 6-8**

What you can do in this project:

* Explore and learn about robots that move with legs,

Wheels and underwater.

* Learn about basic electrical power and motors, and
gear system
* Build robots from everyday items

Resource: 08432, *Junk Drawer Robotics Track Level 2:*

*Robots on the Move
08435, 4-H Robotics Youth Notebook*08430, *Virtual Robotics Track* DVD

**ROBOTICS 3 #80133 Grd 9-12**

What you can do in this project:

* Explore and learn about robots sensors and

analog and digital systems

* Build basic circuits
* Study basic elements of programming and

 instruction

Resource: 08433, *Junk Drawer Robotics Track Level 3:
Mechatronics
08435, 4-H Robotics Youth Notebook*

 08430, *Virtual Robotics Track* DVD

**ROBOTICS YTH LDR #80139**

INTERNATIONAL PROGRAMS

**INTERNATIONAL LDR #90150**

Resource: 4H812, *And My World*

**INTERNATIONAL #90151 Grd 3-12**

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

Resource: 4H812, *And My World*

**INTERNATIONAL YTH LDR #90159**

**Isn’t It Time For You To Be A 4-H Leader?**

Isn’t it time to be a 4-H Leader? All you need is the desire to help youth. Previous 4-H experience is not necessary. Many volunteers help by leading 4-H projects for a local year-round club or short-term 4-H group. But there are many other ways for you to get involved.

For example, you could lead a workshop, a one-time program where you share your knowledge with people. 4-H groups need chaperones for trips. If you like to travel or guide tours, 4-H can match you with a group that needs help. At the county level you can help plan and conduct events, recruit other volunteers, develop and evaluate 4-H programs, or promote 4-H in general. The possibilities are endless.

When you volunteer to be a 4-H leader, there are many resources to get you started and keep you going, including leader manuals and training sessions.

If you are a parent, 4-H is a great opportunity to become involved in your child’s development as a 4-H leader and as a home helper.

The hours that your child is involved in 4-H working in group settings are important. You can multiply his involvement as a 4-H home helper by helping your child go further and have doing 4-H things at home. Many 4-H projects and activities are natural family activities.

Sign up to be a Project Leader, Youth Leader and/or Committee Member today through wi.4hOnline.com

Your family commitment will make 4-H a growth experience for the whole family!

**~ Thank you!**

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**4-H Literature Summary Sheet –**

**Turn in to your 4-H Club Leader**

\*\*DO NOT use the literature selection feature in 4hOnline.com to place your order – please refer to this guidebook and the publications offered and turn in your written selection to your club leader.\*\*

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Name of 4-H Club/Family\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total 4-H members in Family\_\_\_\_\_\_\_\_

**RETURN THIS SUMMARY SHEET TO YOUR**

**4-H CLUB LEADER (ASAP).**

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