

Ohio 4-H Family Guide

This guide is designed especially for volunteers, members and their families involved in 4-H through community and project clubs, EFNEP groups, and special school and community enrichment programs.

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4-H Membership Information

Eligibility for Ohio 4-H membership begins at age 5 or Kindergarten as of January 1 and ends December 31 of the year a youth reaches 19 years of age. Membership begins when an eligible individual is enrolled in a club or group that is under direction of a trained adult and within the scope of Ohio State University Extension.

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Youth in 4-H “learn by doing” as they participate in more than 200 projects and hundreds of other activities designed to help them develop as individuals and become responsible, productive members of society. Last year, more than 286,000 Ohio youth were involved in 4-H.



Service projects are a great way for 4-H members to make a difference in their local communities.

Dear 4-H Families,

I am truly honored that your family has decided to participate in the Ohio 4-H program. Across Ohio, nearly 300,000 youth and 25,000 volunteers are engaged in the 4-H program. While much of the public may see 4-H clubs, project work, county and state fairs, camps, and judging, you realize there is much more. 4-H is about linking young people and caring adults to work together in making a difference in the lives of your child and the community where you live.

As you may know, 4-H is the youth development program of Ohio State University Extension. Our mission is to provide positive environments for youth and adults to reach their fullest potential as capable, competent, caring, and contributing citizens. Your continued support is greatly appreciated.



Last year, 4-H celebrated its centennial. It was truly an exciting year that was full of great celebration of the past, present, and preparing for the future. One of the great celebrations was the ceremonial ground breaking for the Nationwide and Ohio Farm Bureau 4-H Center. If your family or club has not made a contribution yet, we would sincerely appreciate your support.

As you know, Ohio will be celebrating its Bicentennial in 2003! There will be many celebration events and activities across Ohio. While the Ohio 4-H can not make a financial pledge to the celebration, I challenge all 4-H clubs and 4-H families to honor Ohio’s Bicentennial by giving some of their time through a community service project. Why a community service project? One of our H’s stands for hands for larger service for my club, my community, my country and my world—and what better way to make a difference in Ohio than to do a special 4-H project to help others and the communities where you live! Once you have completed a service project, please let us know.



Again, thanks for being a part of Ohio 4-H. Feel free to visit us at www.ohio4-H.org from your home. I hope you and your family have a great year.

Sincerely,

Jeff King
Assistant Director, Ohio State University Extension and
State 4-H Leader



Ohio 4-H Foundation



The mission of the Ohio 4-H Foundation is to raise money, to enhance the 4-H youth development program and to recognize youth and adult volunteers.

Did you know that more than 1,000 individuals, companies and organizations contribute funds to Ohio 4-H each year?



Artist's rendition of the proposed Nationwide and Ohio Farm Bureau 4-H Center

Financial support for 4-H is provided by federal, state and county governments. However, the available public funds are not sufficient to fully support 4-H program needs or efforts to enhance and increase educational programming. Thus, the support of donors throughout Ohio, who believe in the 4-H program, is vital to our success.

The Ohio 4-H Foundation solicits and receives contributions on behalf of Ohio 4-H. The Board of Trustees annually reviews proposals and distributes endowment interest income statewide in the form of grants. These grants fund new and innovative programs, volunteer training, and recognition of outstanding 4-H members through scholarships and awards.

The Foundation is also currently working on raising funds for a new 4-H Center. This state-of-the-art facility will provide thousands of young people throughout Ohio with global experiences and educational programs that will prepare them to be well-rounded citizens and leaders. The center will serve as the home of Ohio 4-H and provide cutting-edge research, teaching resources, and county programming opportunities.

Now that 4-H has celebrated 100 years, it is time to focus on youth and build a facility that will enable premier youth development programming on The Ohio State University campus. Be a part of "Building the Future."

How can you help? Multiply the number of years each member of your family has been involved in 4-H by \$1 to figure your donation. Every dollar helps build the future!

 I (we) wish to help Build the Future by enclosing \$ _____ to the Nationwide and Ohio Farm Bureau 4-H Center Campaign.

I would like more information. Please contact me.

Name _____ Address _____

City _____ State _____ Zip _____

Phone Number (____) _____ Fax (____) _____ E-mail _____

4-H County _____ Signature _____ Date _____



Please Return this form to: 4-H Center Campaign
25 Ag. Admin. Bldg., 2120 Fyffe Road, Columbus, OH 43210

Note: All donations will be recognized in the center. Make checks payable to OSU 4-H Center Building Fund. Please write fund #310131 in the memo line.



Understanding 4-H Projects

4-H Membership Expectations

The expectations for 4-H membership are a balance between 4-H project work, involvement in the 4-H club, participation in 4-H activities and events, and working towards improving one's personal growth. This section addresses the project work component of a member's 4-H experience.

Project Work Through 4-H

Each project book contained in this section is a guide for members conducting activities through an organized project group or at home under the guidance of a parent or adult. In it you will find a wealth of information and activities needed to plan and conduct a project.

Q. What is a 4-H Project?

A: A 4-H project is made up of three types of activities:

- Hands-on Activities: making, producing, selling, practicing, observing, testing, interviewing, etc.
- Organized Activities: demonstrations, speeches, workshops, camps, county judging, project activities, exhibits, etc.
- Leadership / Citizenship Activities: conducting, planning, teaching, assisting, informing, organizing, etc.

Q. Does a 4-H member have to take a project?

A: Yes. However, there are two ways to take a project—either as an individual project or as a group project.

Q. Where does a 4-H member start when choosing a project?

A: If you need or wish to take an individual project, use the information in this section to help you decide.

Q. Where does a member begin when planning a 4-H project?

A: Start by reading the section of the project manual called the Member Project Guide. Every project manual has one located near the front. It may also be a separate supplement. The Member Project Guide offers step-by-step instructions for conducting the three types of activities that make up a 4-H project.

Q. Does a member have to do everything the Member Project Guide suggests?

A: Of course not. That decision is up to the member, parents and advisor. Members may plan to do a little or a lot based upon their interests and abilities. Project plans can also change as a member's interests and needs change.

Q. How much time can be spent on a project?

A: It can be a matter of days, weeks, or even months, depending on the size and scope of the member's plan. Projects can also be repeated to accomplish additional project goals.

Q. Are there incentives for members who complete their project(s) as planned?

A: Members who complete their projects as planned can receive one of Ohio's 4-H Project Achievement Certificates (4-H 905-908). These are awarded based upon the level of difficulty of the project as listed in the Family Guide; e.g. beginning, intermediate, advanced. There is also a special certificate available if members plan and complete a self-determined project.

Q. Is it necessary to attend county-level judging to complete a project?

A: For some members, project completion can be nothing more than participating in project activities, completing a predetermined number of project goals and reviewing accomplishments with a parent or project advisor. If a member chooses to go to county-level judging or the county fair, check with your 4-H advisor for specific judging requirements. For example, sometimes it is necessary to bring an exhibit along with your project manual to interview judging.

Project Selection and Ordering

When choosing a project, consider your interests, background, what is necessary to start your project, and what is available to help you complete it. The At-A-Glance 4-H Project Selection Guide on pages 28 to 31 will help you choose a project. Review this as a family, club or group. A good rule of thumb is to select no more than two projects as a first-year member. Once you've selected your project(s) for the year, request your manual(s) using the form provided by your 4-H Club Advisor (if any) or the one provided on page 31. Some projects require project supplements. Look for the ® to see if the project you selected needs a supplement.

The 4-H Motto is:



"To Make The
Best Better"



2003 4-H Project Update

WHAT'S BRAND NEW (Being Offered for the First Time)

230GPM	4-H PetPALS Group Project Manual (\$23.75)
230	4-H PetPALS Member Resource (\$2.00)
300	You're the Athlete
365.07	Computer Idea Starter
503	Rockets Away (for Estes-type rockets)
593	Soaring Into Action
594	Quest for Expression
595	Voyaging Beyond

WHAT'S NEW (But Replacing Something Else)

365.08	Assistance Dogs (Replacing #201 Dog Guides For The Blind Project Book)
573	Arcs and Sparks (Replacing 572 Arcs and Sparks)

WHAT'S DISCONTINUED (But Being Replaced)

201	Dog Guides For The Blind Project Book (Replaced by #365.08 Assistance Dogs Idea Starter)
572	Arcs and Sparks (Replacing 573 Arcs and Sparks)

WHAT'S DISCONTINUED (And Not Being Replaced)

471	Party Fun With Foods
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Project Descriptions

The Discovering and Exploring projects are for first-year members who want a variety of project experiences. They familiarize young people with Ohio 4-H and allow them to discover and explore its many project areas.

Discovering 4-H

Projects in this series are written in sequence and are designed for members in need of simple-to-read, easy-to-use manuals. Members are encouraged to complete one level at a time before moving to the next. These can be completed in one year.

91 Discovering 4-H 1

Explore 4-H through activities involving community service, natural resources, animals, food and fun.

92 Discovering 4-H 2

Become more involved with basic 4-H projects to discover the meaning of the 4-H Pledge to you, your family and community.

93 Discovering 4-H 3

Examine what you've learned from previous projects to pick a special project that excites you and your family.

Advisor Resource for Discovering Projects

90AG Discovering Series, Advisor Guide

- ❖ Recommended for use by project advisors. Used with Discovering 4-H 1 (4-H 91); Discovering 4-H 2 (4-H 92); Discovering 4-H 3 (4-H 93) Provides an overview of the series; lesson plans for teaching it as a group project; the major areas in Discovering 1, 2 and 3; and the project completion and recognition system. (free)

Exploring 4-H

This is an excellent follow-up for members who have taken the Discovering 4-H sequence or for those who

want a project that introduces them to a specific subject area. Four stand-alone manuals focus on Family & Consumer Science, Animal Science, Plant Science and Engineering. Nine and 10 year-old members will especially benefit from these projects.

94 Exploring Animals

Investigate the worlds of pets, farm animals, wildlife and even insects to learn their value in our environment and lives.

95 Exploring Energy

Research basic energy-use projects to help your family's budget and the planet's survival.

96 Exploring Me and My Home

Make a winter scarf. Explore your family history with your parents and grandparents. Do a load of family laundry. Do family activities. Make mini-pizzas. Do a presentation about something you learned in the project. Do a leadership / citizenship service activity. Keep records and evaluate your accomplishments.

97 Exploring Plants

Plant a seed to experience how its growth and survival gives us pleasure, food and a healthier world.

Aerospace Science

501 Rockets Away (2-liter bottles)

Study the science of rocketry through a variety of hands-on experiments for all ages. Members conclude this project by building and launching 2-liter bottle water rockets. A bottle rocket launcher and an IBM compatible program for designing and launching water rockets are available from your county Extension office.® Visit our Website at www.ag.ohio-state.edu/~rockets—Note: members wishing to launch Estes-type rockets should take 503 as their project.

501GPM Rockets Away

❖ Recommended for project advisors and middle school teachers.

For use when teaching rocketry as a group project. Contains lesson plans and photo-ready member materials. Study the science of rocketry through a variety of hands-on experiments for all ages. Members conclude this project by building and launching 2-liter bottle water rockets. A bottle rocket launcher and an IBM compatible program for designing and launching water rockets are available from your county Extension office. (\$2.75)

502 Science of Flight

Experiment with the forces of flight by building and flying a model airplane or glider to soar above the earth. Visit our Website at www.ag.ohio-state.edu/~flight

503 Rockets Away (Estes type)

Study the science of Rocketry through a variety of hands-on experiments for all ages. Members conclude this project by building and launching an Estes-type rocket from scratch or a kit. Note: members wishing to build and launch 2-liter bottle rockets should take 501 as their project.

Optional Supplements for Rockets Away Projects

501CW 2-Liter Bottle Rocket Computer Program

This IBM compatible "Windows version" program allows members to design and launch 2-liter bottle rockets "on screen" as well as record and analyze actual launch data. Designed for use with the Rockets Away manual. Requires 486 processor or better and ability to load program from a CD drive. (\$16.00)

2-Liter Bottle Rocket Launcher

Explore the science of rocketry with this inexpensive 2-liter bottle rocket launcher. Designed for use with the Rockets Away manual, this pre-assembled launcher attaches firmly to the ground. Includes instructions for the safe launch of 2-liter bottle rockets. To order, send check or money order to: Versey Enterprises, 1258 North 110 East, Shelly, Idaho 83274. Price includes shipping and handling. Allow 2 weeks for delivery. For additional information, call (208) 357-3428. Standard Launcher (\$40.00) or Launcher with built-in pressure gauge (\$50.00)

All Terrain Vehicles

555GPM ATV Group Project Leader Manual

❖ Recommended for use by project advisors. Use this guide book to conduct ATV project meetings and group activities. Use this each year in conjunction with 4-H 555 ATV Rider Handbook. (\$3.50)

555R ATV Rider Handbook (Group Project Workbook)

The All-Terrain Vehicle (ATV) project is appropriate for all ages, experienced or inexperienced, who have access to an ATV and is designed to be taken as a group project. It emphasizes safe operation, proper safety attire, "fitting" an ATV to the rider, maintenance of the machine, and mechanical features of an ATV. Lots of fun and educational activities are included in this workbook. (\$3.25)

Aquariums

625GPM Fishy Science

❖ Recommended for project advisors and third through fifth grade teachers.

Explore the unique features and abilities of fish in four easy-to-use lessons. Includes activities on how fish breath, float, drink and swim. (\$2.50)

626 Keeping Fish Alive

Know more about a healthy environment by designing a functional aquarium for your fish. Ten-gallon aquarium needed for this project.

627 Special Aquarium Setups

Plan and study how to raise four types of fish in an artificial environment that will keep them alive. Twenty-gallon aquarium needed for this project.

628 Aquatic Plants

Design a natural environment by growing plants in an aquarium to keep your fish healthy in the tank.

Archery

631 Basic Archery

Aim your energy toward a sport that develops knowledge and skills in basic archery safety. This is a beginner level project for members who have an adult in the home or neighborhood who can supervise their shooting.

Athletics

300 You're the Athlete

This is a new 4-H project for youth who participate in sports, and adults who work with them. Through this project you can learn the fundamentals of being a well-rounded athlete. The project provides up-to-date, research-based information and lots of fun activities to help you develop important knowledge, attitudes, skills, and aspirations in: Sportsmanship, Time Management, Goal Setting, Nutrition and Sports, Strength & Conditioning, Leadership, Conflict Resolution, and Careers In Athletics. Project activities are designed so that you may apply them in developing your own personal sport-specific interests. You may complete the project activities individually, with team members, or with other groups.

Beef

113 Market Beef Project and Record Book

Complete this required project book every year a market steer or market heifer project is taken. Use in conjunction with the 117R Beef Resource Handbook to monitor your management decisions.®

114 Pilot Beef Breeding Project and Record Book

Complete this required project book every year a beef breeding project is taken. Use in conjunction with the 117R Beef Resource Handbook to monitor your production practices.®

116 Beef Feeder Calf Project and Record Book

Complete this required project book every year a beef feeder calf project is taken. Care for and manage one or more beef cows and their calves or a purchased feeder calf. Use in conjunction with the 117R Beef Resource Handbook.®

119 Dairy Beef Feeder Project and Record Book

Raise, keep records and market one or more male dairy animals from birth to a weight of 400 - 600 pounds. Use in conjunction with the 117R Beef Resource Handbook.

Required Resource Book for Beef Projects

117R Beef Resource Handbook for Market Beef, Beef Breeding, Feeder Calf, Dairy Beef Feeder and Dairy Steer Projects.

Order this book only once and use for several years. It contains essential subject matter information for members taking a market beef, beef breeding, beef feeder calf, dairy beef feeder or dairy steer project. This is an excellent resource for Skill-a-thons. (\$10)

Optional Supplements for Beef Projects

101R Livestock Evaluation Reasons Note Tablet (TBD)

This optional book for older youth will assist you in preparing notes for oral reasons in judging contests. Use this in conjunction with 103R Beef, Sheep and Swine Selection and Evaluation, and 104R PA Judging Manual. (\$5.25)

103R Beef, Sheep and Swine Selection and Evaluation

You may need this optional resource written for beginners when selecting and evaluating livestock. Order it only once and refer to it when selecting projects or before attending a judging contest. (\$2.25)

104R Pennsylvania Livestock Judging Manual

This optional book will assist older youth with advanced evaluation skills in utilizing performance data in learning oral reasons. Order it once and refer to it for information on how to handle market animals and understanding expected progeny differences (EPDs). (\$2.00)

Beekeeping

641 Basic Beekeeping Manual

Learn of the nature and behavior of bees and techniques for keeping them. You also will explore the complexities of bee societies and how bees help our environment.

Bicycle

517 Bicycle Adventure I

Cycle to safety and sporting success with bicycle equipment and accessory tips that fit your needs. This beginning level project is designed for first-year members in the third grade. Not available to Cloverbud members.

518 Bicycle Adventure II

Maintain your bike to get the best performance from it and become a healthy rider.

519 Bicycle Adventure III

Customize your bike to maximize your skills for having fun and serving the community.

Cage Birds

170 Cage Birds in Home

Raise one or more canaries, parakeets or other birds and provide the care needed for caged birds to flourish.®

Cats

216 Cat 1—Purrr-fect Pals

The activities in this project are for youth who may or may not have a cat. It is designed as a beginning level book for youth in the first three years of this project.®

217 Cat 2—Climbing Up

Own and care for one or more cats. This is an intermediate level book. Complete *Cat 1* before taking this project. *Cat 2* can be taken for three years.®

218 Cat 3—Cat Connections

Complete *Cat 1* and *Cat 2* before taking this project. This project is designed as an advanced level book. For youth who have taken this project for six or more years.®

Required Supplement for Cat and Cage Birds Projects

214R Small Animal Record Book

This resource must be ordered in conjunction with the appropriate member project book for cats, guinea pigs, cage birds, gerbils, hamsters, mice, rats, chinchillas, ferrets, and hedgehogs. A separate record book should be used for each species of pet projects taken. (\$2.00)

Advisor Supplement for Cat Projects

216-8AG Cat Group Activity Guide

❖ Recommended for use by project advisors. Use this guide book to assist with meeting plans and group activities. Answers to some of the technical questions asked in Projects 216, 217 and 218 are also provided. (\$2.00)

Child Care

431 Living and Learning with Children

Play a role in the growth and development of younger kids by organizing play experiences for preschoolers in your family or neighborhood. This project is designed as a beginning-level book.

432 More Living and Learning with Children

Find out how children grow through play experiences by planning a variety of activities to help them learn. This project is designed as an intermediate-level book.

433 Teens Learn About Children

Experience the changing needs of young children and learn how to be a responsible caregiver through baby-sitting experiences. This project is designed as an advanced-level book.

Citizenship/International

396 ...And My World I, The World Around Me

Find out more about our planet and the global systems that affect each of us. Explore how you can make a difference through global citizenship and leadership.

397...And My World II, Peoples and Customs of the World

Explore who makes up the world by learning more about your family's heritage and different cultures to understand how we're different and alike.

Clothing

The Ohio 4-H Clothing program helps develop knowledge, skills, and understanding about clothing appearance, buymanship, and construction. Projects are available for both males and females with all levels of experience. Please refer to the individual project's

member guides for more detailed information and consult your county OSU Extension office for specific requirements related to local and state evaluation opportunities.

Multiple Projects: 4-H'ers who take more than one clothing project must complete separate learning experiences related to each, **including creating a separate, complete, total-look outfit FOR EACH OUTFIT.** Using items from two or more projects to form one outfit will **not be considered** as a "completion" of either project during state fair evaluation.

Repeating Projects: The following projects are designed to be taken only one time: Fun With Clothes, It's Time For Clothing - Beginner, Joyful Jumper and Frugal Fashion. Members may repeat all other clothing projects but should attempt new challenges each year such as doing more advanced experiments and surveys and sewing more complicated patterns or harder-to-handle fabrics.

For Younger Members

410 Fun With Clothes

Decorate a sweat shirt or t-shirt by sewing or fusing on a decorative patch. Personalize clothing and do fun experiences in label reading, comparison shopping, assembling a complete outfit, doing a keeping neat checkup, sewing on a button, putting away clothes, and exploring current fashions. Complete leadership and service activities to share what you do with others. This project is designed to be taken one time by younger 4-H members in grades 3 to 5.

409 Ready Let's Sew

Are you ready to sew? This project is fun and exciting! You will learn to make your own clothing and accessories. Several patterns are included in the project book. They include a duffle bag, hat, head and wrist bands, hair scrunchie and enviro tote. Select and make one accessory from the patterns included in the project *and* select an "easy" or "beginner" commercial pattern to make elastic waist shorts, elastic waist skirt or simple vest. Complete additional learning activities in the project. This project may be repeated. This project is a beginner-level project for members ages 9 to 11.

427 It's Time For Clothing—Beginner

Do three activities related to wardrobe planning and maintenance, two buymanship activities, two advertising and store activities, two clothing care activities and at least one leadership/citizenship activity. No prior 4-H clothing experience is needed. For members age 11 and younger. No clothing construction required. This project is designed to be taken one time.

Especially for 'Tweens

413 Joyful Jumper

This project is designed as a beginner-level project for ages 11-13. Make a jumper to be worn with a blouse or sweater, alone as a dress, or with pants as a tunic. Choose accessories and a top (if needed) to make a complete outfit which includes the jumper. Practice good grooming and posture. Do at least two leadership/citizenship activities. (Note: Pantsuits, jumpsuits, "skorts," "split skirt jumpers," etc. require fitting skills that are beyond the beginner level and should NOT be made in the Joyful Jumper project.) This project is designed to be taken one time.

419 Tops for 'Tweens

This project is designed as a beginner-level project for ages 11-13. Select a pattern and make a top (a shirt, blouse, vest, tank top, poncho, sweater, or t-shirt). Collect and organize sewing, knitting, crochet, or other needed equipment. Select from the wardrobe or buy garment(s) and accessories to wear with the top to form a "total look" outfit. Evaluate ready-to-wear garments and their labels. Check and improve posture. Do at least two leadership/citizenship activities. This project may be repeated.

424 Clothing For Middle School

In this intermediate level project for youth in grades 5 to 8 or 9, you will make: a) at least one garment with sleeves; or b) a skirt or pants plus a top such as a vest, collarless jacket, sweater, blouse, shirt, or other top with or without sleeves. Assemble a total outfit featuring the garments made to wear to school. Check and improve personal grooming habits and posture. Strive for a total look each school day, and do needed repairs. Do at least two leadership/citizenship activities. This project may be repeated.

428 It's Time For Clothing—Intermediate

Complete three clothing selection activities, two advertising and marketplace activities, two buymanship activities and two clothing care activities. Do at least one citizenship/leadership activity. No prior 4-H clothing experience is needed. No clothing construction required. This project may be repeated.

Especially for Teens

406 Clothes for High School and College

This project is an advanced-level project designed for members in high school with some clothing experience. Construct an outfit with a minimum of two pieces, or a one-piece garment with sleeves, plus some other style detail not tried before. Do a wardrobe inventory and analyze personal color, texture, and lines. Practice good grooming and repair clothing.

Do at least two leadership/citizenship activities. This project may be repeated.

407 Accessories For Teens

This project is designed as a beginner level project for teens. Make at least one accessory (bag/purse, belt, cummerbund, footwear/shoe covers, hat, gloves, jewelry, removable collar/dickey/jabot, scarf/tie, muffler/shawl, socks/hosiery, or suspenders) to achieve a more complete appearance in an outfit. Complete activities related to what accessories do for you, use accessories effectively, do a wardrobe inventory, and accessorize for a total look. Do at least one leadership/citizenship activity. This project may be repeated.

420 Outer Layers

This is an advanced-level project for 4-H members 15-18 years old. In "Outer Layers" you will be making a coat, jacket, or cape. Although a tailored garment is challenging to sew, it will provide many new learning experience and a sense of satisfaction and accomplishment when completed. This project may be repeated.

425 Frugal Fashion

This project will challenge youth (ages 15-18) to use creativity and resourcefulness as they put together a total look outfit. Youth will purchase or put together outfits; however the focus will be on spending the least amount of money possible. Activities will involve youth in investigating sales merchandise, evaluating quality and use of second hand or resale clothes as well as recycling garments already in the wardrobe. This project will NOT involve sewing or clothing construction skills. This project is designed to be taken one time.

429 It's Time For Clothing—Advanced

Do four wardrobe planning activities, three clothing marketing activities, three buymanship activities and one clothing care activity. Do at least one citizenship/leadership activity. No prior 4-H clothing experience is needed. No clothing construction required. This project may be repeated.

For Intermediate Level 4-H Clothing Members of Any Age:

(with some 4-H clothing experience)

412 Sew For Others

Construct one complete outfit for the person of your choice, or adapt three different garments for a disabled or handicapped person. Include at least two new learning examples involving fitting, alterations, construction techniques, or fabric handling. Analyze coloring, figure type, size, and preferences of the "other." Compare styles, colors, fabrics, workmanship, cost, and special features of ready-to-wear outfits with the outfit constructed for the other. Do at least one

leadership/citizenship activity. This project may be repeated, however a different category of “others” must be selected each time the project is repeated.

415 Active Sportswear

Make at least one garment in an outfit assembled for active sportswear. Compare the garment(s) made with similar ready-to-wear garments. Evaluate buying habits and the sportswear outfit. Complete an accessory plan. Do at least two leadership/citizenship activities. This project may be repeated.

423 Sportswear for Spectators

Make at least one garment in an outfit assembled for spectator sportswear. Compare the garment(s) with similar ready-to-wear garments. Rate personal buying ability. Identify spectator sportswear needs and preferences. Complete an accessory plan. Do at least two leadership/citizenship activities. This project may be repeated.

For Advanced Level 4-H Clothing Members of Any Age:
(who have mastered basic clothing construction and are ready for new challenges)

408 Creative Costumes

Participants will choose to make the costume in one of four categories: Historical, Ethical/Cultural, Theatrical, or Special Interests. Goals of the project include understanding clothing and its significance to individuals and groups as well as applying new knowledge to planning and making a costume related to the goals of the specific costume category. Projects will be evaluated according to the seven clues to a total look. In addition, evaluation will include authenticity of adoption and knowledge of costume history or background related to the specific costume chosen. This project is recommended for teens and may be repeated, however a *different category* of “costumes” must be selected.

416 Lounging Clothes & Undergarments

Make the top layer of an outfit for lounging at home (robe, housecoat, jumpsuit, tunic and pants, or other garment suitable for lounging). Make or select other garments and accessories to wear with the outer garment (sleepwear, undergarments, slippers, or shoes) to complete your lounging outfit. Compare loungewear fabrics and garments in a shopping experience. Practice good grooming. This project may be repeated.

417 Dress Up Outfit

Make at least one dress up garment to be worn as part of a total dress up outfit. Visit stores and examine ready-made dress up garments. Analyze personal coloring, body build, image, and personality. Do at least one leadership/citizenship activity. This project may be repeated.

426 Clothing for Your Career

Using the seven clues to a total look, make and evaluate an outfit that has a minimum of two pieces, provides several new challenges and fills a job or interview need. Do an activity to learn about different body types and body proportions and what style looks best for you. Write a description of your job or one in which you are interested. Visit a job site and/or interview an employer about clothing in the workplace. Do a closet inventory and learn about wardrobe management. Plan a wardrobe that projects a positive image at work. Do at least two alteration/recycling experiences and compare costs with an alteration or repair service. This project may be repeated, however a different career must be explored.

Optional Supplement for Clothing Projects

422R Clue Yourself Into Modeling

Learn more about how to properly model your outfit. (free)

Cloverbuds

710GPM Ohio Cloverbud Program Manual—Series I

❖ Recommended for use by Cloverbud advisors. These Ohio 4-H Cloverbud program curriculum materials include a series of short term, fun, cooperative, noncompetitive activities that can be used by adult volunteers with Cloverbud youth (K-2) to help them gain self-understanding, social interaction skills, experience achievement, and develop positive attitudes. The Cloverbud activities will enable adult volunteers to help youth relate to science and technology, expressive arts, health, the environment, personal development, citizenship, family science, consumerism, plants and animals. (\$13.00)

711GPM Ohio's 4-H Cloverbud Program—Series II Curriculum Instructional Materials

❖ Second set of instructional Cloverbud curriculum recommended for use by Cloverbud leaders and advisors with K-2 children. Same goals and objectives as the first Cloverbud Program Manual. There are 25 curriculum pieces in the set with about 9 activities per curriculum piece. (\$15.00)

Communications Resources

909R Demonstrations

Recommended as a resource for individuals and teams who are planning to participate in a demonstration contest. Learn the basics of giving an illustrated talk and utilizing visual aids. (free)

970R Tools for Public Speaking

A valuable resource for learning about the nine basic tools for public speaking. Recommended for individuals planning to participate in a public speaking contest.* (free)

Advisor Supplement for Public Speaking

971AG Tools for (Teaching) Public Speaking

A valuable resource for teaching about the nine basic tools for public speaking. Recommended for advisors planning to help members participate in a public speaking contest.*

**Please refer to the actual 4-H "Contest Rules Sheet" for additional rules and eligibility requirements.*

Creative Arts

592 Art As Expression

Develop your creativity and learn elements of design by exploring many art mediums. Explore how art is used as a form of expression in areas such as literature, architecture, and cultures.

Cultural Awareness

956GPM Invent; An African-American Inventors' Curriculum

❖ Recommended for Project Advisors and Classroom Teachers (grades 4-8). This curriculum is designed to develop creativity and critical thinking skills in youth. The thirteen experiential units/lessons focus on life skills, science processes, and inventiveness as demonstrated by various African-American Inventors. (\$12.00)

Dairy Cattle

119 Dairy Beef Feeder

(See Beef Project Section on page 7.)

122 Dairy Calves and Heifers Project and Record Book

Complete this required project and record book every year a dairy heifer project is taken. Learn how to raise, care for, manage, and keep records for one or more dairy heifers. Use in conjunction with resource book 122R Dairy Calves and Heifers.

126 Dairy Cow Project and Record Book

Complete this required project and record book every year a lactating dairy cow project is taken. Learn how to care, manage, and keep records for one or more dairy cows. Use in conjunction with resource book 123R Dairy Cows and Management.

Required Record Books for Dairy Projects

122R Dairy Calves and Heifers

Learn skills in selecting, feeding, management, genetics, reproduction and herd health.®

123R Dairy Cows and Management

Raise a healthy, productive dairy cow through responsible management and care.® (\$5.75)

Optional Supplements for Dairy Projects

124R Techniques of Judging Dairy Cattle

You may need this optional resource when evaluating dairy cattle. This is a good reference to study before attending a dairy cattle judging contest. (\$11.50)

125R Learning About Dairy

Resource book for older 4-H members and leaders. Covers all aspects of the dairy animal project, excellent in-depth study resource for Quiz Bowl or Skill-a-thon. (\$2.00)

Dog Care and Obedience

200 Dog Care

Involve your family with caring for your dog and training your pet to be a best friend. This project complements the other dog projects.®

204 Grooming and Handling Dogs

Learn the basics of dog showmanship. Project 200 (Dog Care) should be either completed before taking this project or taken simultaneously with this project.®

206 Dog Obedience Training-Beginning

Begin the basics of obedience training to gain the rewards of what you and your dog can do together.®

207 Dog Obedience Training-Advanced

Advance to graduate novice, open and utility training levels as you and your dog improve as a team.®

Required Supplement for Dog Care and Obedience Projects

214R Small Animal Record Book

This resource is the required record book for 4-H Dog Projects unless the 4-H Dog Care Member's Record form on pages 65-69 of the Dog Care 200 project book is used. (\$2.00)

Electricity

527 *Magic of Electricity*

Look around and explore the world of electrical energy. Begin to build your own circuits using batteries, light bulbs and wire. You'll soon learn the difference between what's science and what's magic. This project may be repeated in order to complete all the activities.

528 *Investigating Electricity*

Put on your detective cap and try your hand at decoding circuit diagrams. Investigate the difference between series and parallel circuits as you build your own switches and learn to solder strong connections.

529 *Wired for Power*

Power up your knowledge on electrical energy used around the home. Test for grounding, trace the circuitry and calculate circuit load on the electrical outlets in your home.

530 *Entering Electronics*

Have fun exploring the fundamentals of electronics. Learn the difference between a resistor and a capacitor. Then race ahead and build your own intruder alarm or amplifier. This project can be taken after the member has successfully completed Electric Book 2 (528- Investigating Electricity) and has solid soldering skills and circuitry knowledge.

12

Advisor Supplement

531HG *Electric Group Activity Guide*

This guide is for volunteer leaders who are working with young people in any of the four levels of electricity. It has activities and ideas to make your group meetings more fun and educational. (\$2.00)

Field Crops

660 *Corn*

Cultivate a bumper crop as you learn about corn from seed to market and contribute to your family's productivity.

661 *Small Grains*

Reap the benefits of growing small grains like wheat, oats, barley and rye; whether you take them to market or feed your animals and family.

662 *Soybeans*

Plant, harvest and market soybeans to profit from the responsibility and the crop.

First Aid

352 *Safety in Everyday Living (First Aid)*

Be on call and prepared to treat injuries or accidents in everyday life.

Fishing

623 *Fishing for the Beginner*

Drop a line to enjoy the fish of Ohio. Learn about fish and how to catch them.

624 *Fishing for the Intermediate*

Bait the hook again to learn more about fishing methods and equipment and fish in the ecology.

Food Science

489GPM *Breads of the Harvest*

❖ Recommended for project advisors or third and fourth grade teachers.

This three-lesson project teaches the science, history and nutrition of bread making since the pilgrims. Members conclude by making a loaf of colonial bread. (\$9.00)

489-1 *Breads of the Harvest—Nutrition Education Book*

This resource can be used as a supplement to the existing Breads of the Harvest curriculum (4-H 489GPM) or a stand-alone unit on nutrition. It includes a variety of simple nutrition activities that can be conducted during a club meeting or in a classroom setting. Activities are geared for 3rd-5th grade members. The book is available to Ohio counties for \$2.81 along with a 6' x 5' Food Guide Pyramid nylon playmat. (4-H 489-PM) for \$32.75. The playmat is necessary for conducting many of the activities contained in the Breads of the Harvest nutrition education book. (\$3.75)

490 *Science Fun with Dairy Foods*

Choose from a variety of experiments such as making yogurt, growing molds and ripening cheeses to explore the science behind the production of dairy foods.

490 GPM *Science Fun with Dairy Foods*

❖ Recommended for project advisors and junior and senior high teachers.

A series of nine easy-to-use lesson plans will introduce experiments such as making yogurt, growing molds and ripening cheeses to explore the science behind the production of dairy foods. (\$2.50)

Foods and Nutrition

The Ohio 4-H Food and Nutrition program helps develop knowledge, skills and understanding of nutrition, menu planning, safe food handling, kitchen equipment safety, consumer knowledge, fitness, meal and time management, and food and nutrition related careers. Projects are available for both males and females with all levels of experience. Please refer to the individual project's member guides for more detailed information and consult your county OSU Extension office for specific requirements related to local and state evaluation opportunities.

For Beginning level ages 9 to 11

459 I Spy In The Kitchen

Everyone enjoys good food. There are a few mysteries that must be solved when learning how to prepare good food. In this project, you will learn about the Food Guide Pyramid and the foods you need to eat each day to be healthy. You will also learn to prepare simple recipes that you will enjoy serving to your friends and family.

466 Mini Meal Magic

Prepare balanced meals, tasty snacks, yummy deserts and special treats that you, your family and friends will enjoy.

481 Food & Fitness for Fun

Combine information, great recipes, and activities related to food and fitness with a goal for a healthier life.

487 Fast Break for Breakfast

This project focuses on the importance of starting each day with a nutritious breakfast and uses the Food Guide Pyramid as the basis for exploring breakfast options. Menu planning, food safety and nutrition topics are included in this sports-themed project book. It is designed for youth age 10-12 that have completed at least one beginning-level 4-H food and nutrition project (examples: Adventures With Foods, Mini Meal Magic) prior to enrolling in this project.

For Intermediate Level ages 11 to 13

461 Let's Bake Quick Breads

Bake delicious quick breads while learning the principles of quick bread preparation. Learn how mixing techniques and ingredients determine product character and quality.

468 Meals In Minutes

Today's busy life-styles require new ways to prepare nutritious meals in a short time. You will learn how to manage time wisely while preparing foods that are easy, tasty, and good for you.

475 Star Spangled Foods

Discover the customs and traditions that influence some favorite American foods and the way we like them by experimenting with keeping and serving food at its best.

472 The Outdoor Chef

Eating outdoors has become as much a part of our lives as baseball or pizza. Whether it is a picnic table on the patio, by the lake, or a campsite in the wilderness, food is always enjoyed when it is eaten or prepared outdoors. This project will guide you through a variety of outdoor food experiences suited to a fast-paced,

casual life-style. This project is designed for youth ages 12 to 14.

482 Food and Fitness Choices for You

The fitness and exercise choices you make when you are young may help you to reach a healthier and happier life. What food should you be eating to make sure your body has the nutrients it needs to grow and develop? In this project you will learn to be a better consumer, learn how to prepare tasty nutritious foods and learn lots of fun ways to make your body stronger and healthier. This project is designed for youth ages 12 to 14.

For Advanced Level ages 14 and older

462 Yeast Breads on the Rise

Master the art of baking delicious yeast breads. Learn the principles of yeast bread preparation, and learn how mixing techniques and ingredients determine product character and quality.

467 You're The Chef

Prepare creative, nutritious meals using the oven, range top, the microwave, slow cooker and stir-fried foods. Vegetarian foods and selecting foods at the deli are included in this project.

469 The Global Gourmet

Enjoy the many flavors of foods from around the world! You will explore the food history, customs and nutritional needs around the globe to better understand our world.

476 Pathways To Culinary Success

This project will explore a variety of new experiences to gain a basic understanding of culinary arts. Learn about the techniques used by cooks and chefs in preparing foods, how to use basic equipment, prepare meats, stocks, and sauces, pies and pastries, garnishes and presenting meals with appeal! Career exploration, advanced recipes and lots of activities are included in this project. Members taking this advanced level project should have completed projects at the beginning and intermediate levels.

Forestry

613 Exploring Our Forests

Find out about forest products and identify trees and forest enemies by studying the healthy relationship of forests to wildlife, water and soil.

614 Tree Planting

Participate in forest management by planting 10 to 200 trees for wood products, to aid conservation and protect wildlife.

Gardening

673 *From Seed to Flower*

Enjoy the beauty and fun of an annual flower garden and learn about growing these flowers from seeds or from purchased plants.

674 *Indoor Gardening*

Learn about keys to successful house plant culture and discover the pleasures of indoor gardening.

691 *Vegetable Gardening I*

Start a garden plot or container garden of at least four vegetable varieties to learn what conditions are needed for them to grow.

692 *Growing With The Seasons*

Learn to make the most of your garden space by planting seasonal crops. For those members with an interest in expanding their commitment to growing and preserving home grown fruits and vegetables.

496AG *Growing Together*

This guidebook is designed for teaching garden-based science to kids. 4-H and Master Gardener volunteers, parents and teachers will find fun, interactive activities to include in their indoor or outdoor horticulture education efforts. Examples of subjects included in the ten units are pollination, soils, insects, trees, and decomposition. (\$5.00)

14

Gardening—Junior Master Gardener

693 *Junior Master Gardener Leader/Teacher Guide*

This program is modeled after the highly successful Master Gardener program and offers horticultural and environmental science education, and leadership and life skills development through fun and creative activities. Group activities can be held with a school class, Junior Master Gardener (JMG) club, after-school program, home school or any group of interested young gardeners. Youth can become certified JMGs by completing one group and one individual activity for each teaching concept in the eight chapters of the JMG Handbook, and by participating in one leadership/community service project per chapter. Use this JMG Leader/Teacher Guide (\$38.00) in conjunction with the Junior Master Gardener Handbook (\$15.00) which is especially designed for youth in grades 3-5. To enroll in this program, check with your OSU Extension office for details. Contact Amy Stone at 419-578-6783 for specific curriculum questions.

Genealogy

441 *Family History Treasure Hunt*

Discover your family history as you go on a treasure hunt to learn jewels of information from interesting relatives, special events, and curious stories of days gone by. This project may be repeated.

Goats

130 *Angora Goats*

Learn about rearing angora goats and marketing mohair including basic management practices, nutrition and health, fitting and showing, and mohair evaluating. Members should own or have access to Angora goats.® Use in conjunction with 131-1R Goat Record Book.

131 *Goat Manual (Cream Cover)*

Experience ownership responsibility for raising a dairy goat and find out how dairy, meat and harness goats contribute to our livelihood. This is a good resource for Skill-a-thons. Order only once because it can be used for several years.® Goat project members need to complete the Goat Record Book #131-1R.

Required Record Books for Goat Projects

131-1R *Goat Record Book*

Use in conjunction with the Goat Manual #131R when taking a Dairy Goat, Angora Goat, Recreation Goat, or Market Goat Project. (\$2.00)

Grazing Management

100 *Management Intensive Grazing*

Practice the principles of rotational grazing with this beginning-level project. Designed for members 12-18 years of age. First-year project members must maintain 800 pounds of animal on one acre. Members repeating the project must maintain 1,200 pounds of animal per acre on two or more acres.®

Required Supplement for Grazing Management

100R *Pastures for Profit*

Members must order this project resource when taking 100 Management Intensive Grazing. Resource may be reused when repeating project. (\$3.25)

Gun Safety

630 *Safe Use of Guns*

Make sure you are safe. By learning the importance of gun safety, you could save your life or the life of someone you love. This is a beginning-level project for 4-H members who have an adult in the home or neighborhood who can supervise their shooting.

Health

349 *Health A, Discovering Myself*

Are you ready to explore your body and learn how to keep it healthy? That's what "Discovering Myself" is all about. You'll have fun learning to keep fit, increase your brain power and express yourself in positive ways. Your project manual has six chapters, each designed around one of the six wellness factors: Body Motion, Circle of Friends, Brain Power, Express Yourself, Dream On and My World. Wellness deals with the whole person and all parts of their lives; that is why the theme for this project is "Discovering Myself."

350 *Health B, Fun With Friends*

Are you ready to explore your body and learn how to keep it healthy? That's what "Fun With Friends" is all about. You'll have fun learning to keep fit, increase your brain power and express yourself in positive ways. Your project manual has six chapters each designed around one of the six wellness factors: Body Motion, Circle of Friends, Brain Power, Express Yourself, Dream On and My World. Wellness deals with the whole person and all parts of their lives; that is why the theme for this project is "Fun With Friends."

352 *First Aid (Safety In Everyday Living)*

Be on call and prepared to treat injuries or accidents in everyday life.

357 *Alcohol Decisions*

Examine the dangers associated with alcohol consumption and abuse to avoid it becoming a problem for you.

358 *Tobacco and You*

Explore the hazards associated with tobacco products to prevent your health from going up in smoke.

362 *GPM Tobacco Risk Awareness Program (TRAP)*

❖ Recommended for project advisors and classroom teachers.

Become aware of the potential health risks of tobacco products. Twenty-five teacher-ready lesson plans are complete with photo-ready handouts. (\$5.00)

Home Decorating and Designing

491 *Adventures in Home Living—Beginner*

Make simple furnishings or accessories to make the living spaces in your home more pleasing and practical.

493 *Furniture and Woodwork Recycling—Intermediate*

Restore an antique or finish or upholster a piece of furniture using appropriate treatments and materials.

494 *Designing Interiors—Intermediate*

Arrange and decorate a room or equivalent space by applying elements and principles of design to achieve attractive and useful results.

495 *Your First Home Away from Home—Advanced*

Plan your college dorm room, first apartment or house using housing, furnishing, equipment and management principles.

Home Equipment

403 *Exploring the World of Small Appliances*

There's always a new small appliance coming out on the market, do you really need it and where are you going to store it? This project is designed to provide you with knowledge, skills, and experiences related to small kitchen appliances, decision making, and resource management. You will explore the basic information about design, features, and use and care of small appliances. This intermediate level project may be repeated.

Horses

171 *Basic 4-H Horsemanship*

Feed and care for your own saddle horse or pony while becoming more responsible and learn safety with horses.

172 *Basic 4-H Horse Science*

Gain skills as a judge by recognizing breeds, coloring, markings and gaits as you learn how to safely work with horses.

173 *Horseless Horse*

Learn about horses without owning one. Over 20 different horse-related subjects are covered in easy-to-use worksheets. This project may also be used during the educational portion of club meetings. Written for the beginner but may be suited for members of all ages. (\$4.75)

175 *Light Horse Selection*

Judge horses and classes after studying basic horse anatomy for a sound basis in the selection of pleasure or breeding stock.® Use in conjunction with 190R Equine Record Book.

178 *Basic Horse Training*

Train your horse in basic skills and discipline by becoming a disciplined teacher. Use in conjunction with the 190R Equine Record Book.®

180 *Learning to Jump*

Jump over fences by beginning on the flat and taking you and your horse through the course to self-confidence. Use in conjunction with the 190R Equine Record Book.®

181 Draft Horse

Learn the basics of care and showing of the gentle giants of the horse world. Use in conjunction with the 190R Equine Record Book.®

182 Horse Nutrition

Explore digestion, nutrients, feedstuffs, rationing and poison plant identification to protect the health of the horse you love. Use in conjunction with the 190R Equine Record Book.® (\$8.50)

183 Equine Reproduction and Genetics

Explore breeding and mare and foal management in a project that requires commitment. Use in conjunction with 190R Equine Record Book.® (\$3.50)

184 Standardbred Horses

Learn how to safely harness your horse to a cart and drive, whether it is a Standardbred racehorse or a pleasure driving horse. Use in conjunction with 190R Equine Record Book.®

188 Trail Riding

Team up with your horse for competition or pleasure trail riding. Learn the basics of conditioning your horse. Use in conjunction with the 190R Equine Record Book.®

189 Dressage

Develop your horse's physical abilities and learn how to control the horse's every move. Use in conjunction with the 190R Equine Record Book.®

Required Supplements for Horse Projects**183MPG Equine Reproduction**

Order as a resource for members taking 4-H 183 Horse Reproduction and Genetics. (\$2.00)

190R Equine Record Book

Required for horse project(s) # 175, 178, 180, 181, 182, 183, 184, 188 and 189 and Vet Science project(s) #241, 242 or 243. Complete one record book every year. This record book is not needed for members taking project #171 and #172 because these books contain their own record forms. (\$2.00)

Advisor and Youth Supplement for Horse Projects**179AG Uniform Rules for Horse Shows (Revised 2000)**

Used at 4-H horse shows throughout Ohio, although rules may vary at each location. When competing in the state horse show, these rules are followed. (\$2.00)

Insects**644 Exploring our Insect World I**

Count, collect, mount and label 25 different species representing eight orders and learn how insects play an important role in ecology.

645 Exploring our Insect World II

Expand your insect collection and study insects' helpful and harmful effects on the environment.

Laundry**404 Laundry for Beginners**

Help your family by properly sorting clothes and operating appliances to keep your clothes and you looking good.

405 Laundry-Advanced

Master stains, sizings and presoaks to improve your laundry results.

Lawncare**548 Lawn Care**

Learn all you need to know about caring for your lawn. Includes activities on seeding, weeding, fertilizing, and mowing. Members can also explore the in's and out's of starting a lawn care business. Members should have access to lawn care equipment.

Leadership**370 One-On-One**

One-On-One is a mentoring project designed for teens age 13 and older with at least two years of 4-H experience. Teens mentor at least one beginner 4-H member and complete a series of learning experiences with their protegee.

371 4-H Club Teen Leadership

Teens age 13 or older work with a local 4-H advisor to develop and complete an individual plan to provide leadership within a club. A variety of activities and leadership learning experiences are provided.

372 Multi-Level Teen Leadership

In this project, teens complete responsibilities in local, county, and state 4-H programs; participate in study guide experiences; may mentor younger members; and take part in other 4-H teen leadership opportunities. This project is especially appropriate for teens in county 4-H Teen Leadership groups, Junior Leaders or similar leadership programs.

373 Teen Leadership On The Job

The Teen Leadership On The Job project is for teens who are employed and want to develop leadership

to “make the best better” on the job. Experiences related to the real world of work, attaining goals and objectives, developing a work ethic, stress management, money management, time management, and performance assessment are included.

374 Teen Boardmanship

This project is designed for teens who serve or are interested in serving on boards or committees. Teens who serve on advisory committees, junior fair boards, student councils, church boards or other groups will gain skills for working on boards, skills in working with groups, and new understanding for completing their roles and responsibilities through this project.

377 Speak Out

This project is for teens who are interested in serving on awareness teams, as ambassadors, on Speaker’s Bureaus, and other public relations groups. Members plan, present, and evaluate at least one program.

Leadership Skills You Never Outgrow Series

In the Leadership Skills You Never Outgrow series youth develop skills in understanding self, communicating, getting along with others, learning to learn, making decisions, managing, and working with groups. Each of the four levels is designed to be completed with a helper or volunteer over a period of one to three years.

391 Leadership Skills You Never Outgrow I: Individual Skills for 9-11 Year Olds

392 Leadership Skills You Never Outgrow II: Individual Skills for 12-19 Year Olds

393 Leadership Skills You Never Outgrow III: Skills for Working in Groups

394 Leadership Skills You Never Outgrow IV: Skills for Leading Groups for Teens.

Advisor Supplement for Leadership Projects

395AG Leadership Skills You Never Outgrow Advisor Guide

Recommended for project advisors in supporting members and helpers in completing the above projects. (free)

390HG-Leadership Skills You Never Outgrow Helpers Guide

Used with all Leadership Skills You’ll Never Outgrow projects. Each young person who enrolls in these leadership projects is expected to have a “helper” in completing the project. This guide provides direction for those individuals who serve as project helpers. (free)

511GPM CarTeens

❖ Recommended for use by advisors of 4-H CarTeens groups.

Used to develop and plan more effective programs with CarTeens members. The CarTeens project is for teens who are involved in providing leadership and instruction through the 4-H CarTeens program. The project includes information and experiences for planning, conducting, and evaluating 4-H CarTeens programs. (\$2.75) ®

Required Supplement for Leadership Project

511R CarTeens Member Resource

This resource is only for members who are taking 4-H CarTeens as a group project and is designed to serve as their project book. (\$2.00)

Leisure Activities

496 Collectibles

Investigate the world of collectibles. Explore sports cards, coins, figurines, leaves, autographs, rocks and minerals, and hundreds of other items. Learn collecting skills, and discover why collecting helps young people grow.

Money Management

445 Becoming Money Wise

Monitor your cash flow and see where your money goes by developing a budget and good records to become a responsible consumer. This project is designed as a beginner-level book and may be taken one or two years.

448 Teens...On The Road To Financial Success

Teens ages 14-19 will organize their financial life by analyzing spending, obtaining and managing banking services, making consumer decisions and exploring financial careers. This project is designed to be taken for one or two years.

Natural Resources

611 Let’s Explore the Outdoors I

Take field trips and discover plants, trees, insects and animals that live in the woods, streams and fields to learn why conserving nature is important.

612 Let’s Explore the Outdoors II

Do something about conserving natural resources after exploring how soils, water, forests and wildlife fit together.

615 At Your Disposal: A Cleaner Environment

Examine the problems and options of waste disposal and why a cleaner environment is important to our families and communities.

617 *Exploring Ohio Ponds*

Develop an appreciation of the water cycle and the impact of pond ecology on a healthy environment by visiting a pond and learning by observation.

621 *Ohio Birds*

Observe and identify birds with bird feeders in your yard and on field trips to see the many benefits our feathered friends provide.

Pet Care

215 *Guinea Pig*

Learn how to select, feed, manage, and raise guinea pigs. Small Animal Record Book (214R) required.®

220 *Small Animals Project Book*

Complete the Interest Areas and age-appropriate activities relating to the small animal species taken as your project. Activities can be repeated or new animal species explored. Species include gerbils, hamsters, mice, rats, chinchillas, ferrets, and hedgehogs. Small Animal Resource Handbook (220R) and Small Animal Record Book (214R) required.®

Required Supplement for Pet Care Projects

214R *Small Animal Record Book*

This resource must be ordered in conjunction with the appropriate member project book for cats, guinea pigs, cage birds, gerbils, hamsters, mice, rats, chinchillas, ferrets, and hedgehogs. A separate record book should be used for each species of pet projects taken. (\$2.00)

Required Supplement for Small Animal Projects

220R *Small Animal Resource Handbook*

This project supplement covers the history, selection, handling, housing, nutrition, health, reproduction, grooming and showing of seven species of small animals. Learn about gerbils, hamsters, mice, rats, chinchillas, ferrets, and hedgehogs by using this small animal project resource. (\$8.00)

(4-H) PetPALS

230GPM *4-H PetPALS*

Only trained Master 4-H PetPALS Volunteer Leaders may teach this leader-directed project. 4-H PetPALS is an intergenerational program linking youths and their pets with senior adults. Master 4-H Volunteer Leaders teach youth the skills needed to interact with residents in health care facilities, such as assisted living and nursing home facilities, enhancing intergenerational relationships. Applying the power of the human-animal bond, 4-H members learn to

select, socialize, and train their pets to participate as a youth-pet team in animal-assisted activities. Youths and their pets, accompanied by adult volunteers, visit senior health care facilities. Youths apply the lessons and activities taught in this 214-page, 10-step experientially based leader-directed curriculum to expand their capacities to develop leadership and citizenship skills in an intergenerational environment. 4-H PetPALS allows young people to be models for residents in health care facilities and the community at-large of the significance of human-companion animal interactions and the importance of intergenerational relationships. Check with your county Extension office for more details. (\$23.75)

230 *4-H PetPALS Member Resource*

This Member Resource will help 4-H members set goals for the year and keep a record of their 4-H PetPALS activities and accomplishments. This Member Resource cannot stand alone as a 4-H project. Youths must belong to a 4-H club or group with a trained Master 4-H PetPALS Volunteer Leader. Youths interested in taking this project should contact their county Extension office for more details. (\$2.00)

Photography

579 *Adventures With Your Camera—A*

Look at the world through your own special viewer by discovering your photography skills. Learn how to properly hold a camera, identify camera parts, properly care for your camera, identify the right film for the circumstances, choose good subjects, and much more. This beginning-level project should not be repeated.

580 *Adventures With Your Camera—B*

Take successful shots with your camera by learning photography basics and advanced techniques in composition and film processing. Learn how to have better camera control, utilize lighting techniques, improve picture composition, improve photos through cropping, position your subject, determine proper film speeds, and much more. This intermediate-level project may be repeated. Project #579—"Adventures With Your Camera—A" should be taken prior to doing this project.

583 *Adventures With Adjustable Cameras*

Refine your photography skills with an adjustable camera by realizing how taking each picture opens your eyes to choices. Learn how to control film exposure, adjust shutter speeds, control sharpness, take night photos, take double exposures, and much more. This intermediate level project is recommended for youth with access to an adjustable camera.

Plant Science

695GPM Go Plants!

“Go Plants!” activities are designed with the busy teacher in mind. This five-week, five-lesson unit focuses on a specific part of the plant each week - seeds, roots, stems, leaves, flowers. Lessons are designed to be taught in 60-minute intervals, with the potential to expand to 120 minutes if optional Digging Deeper and Going Beyond activities are conducted. The book includes student-ready worksheets and fact sheets to enrich the classroom experience. (\$7.00)

Poultry

151 Poultry Production: Raising Pullets

Become a poultry producer and manager through the experience of feeding, watering and caring for chickens for home use or market. Complete your records in the back of this project book to monitor your production decisions.

152 Poultry Production: Raising Broilers

Have fun raising baby chicks for broilers and your family will enjoy the nutritious, delicious product. Complete your records in the back of this project book to monitor your management decisions.

153 Raising Fancy Poultry

Discover the many different types of poultry from all around the world to gain an appreciation for these colorful birds. Then, construct a pen, plan a budget, and raise your own Fancy Poultry. Complete your records in the back of the project book to monitor your management decisions.

165GPM The Incredible Egg

❖ Recommended for project advisors and classroom teachers.

Learn about the beginning of life as you study chick embryology. This four-lesson series includes hands-on activities. (\$2.75)

166 Raising Turkeys

Buy, brood and raise a healthy turkey flock with proper equipment and responsible care. Complete your records in the back of this project book to monitor your management decisions.

167 Ducks and Geese

Discover the breeds, markets and duck and geese industries while managing your flock to a healthy profit.

Optional Supplement for Poultry Projects

154R Poultry Judging

You may need this optional resource when evaluating poultry. This is a good reference to study before participating in a judging contest. (\$4.50)

Rabbits

211 Rabbits I

Hop into rabbit raising for business or pleasure by selecting a rabbit and learning about its history, housing and care.

212 Rabbits II and III

Raise and sell fancy or meat rabbits for a profit to realize an accomplishment and a reward for your efforts.

213 Rabbits-Advanced

Increase your profits and rabbit expertise by learning about genetics and breeding, marketing and tanning hides.

Radio-Controlled Vehicles

504 Radio Controlled Vehicles

Be your own pit crew and driver by assembling or modifying (battery operated) radio-controlled cars or trucks to take the checkered flag. Not for use with boats, aircraft or gas-powered vehicles.

Rope

540 Rope

Tie up loose ends with the rope artistry of knots, hitches, splices and special uses that help get the job done.

Self-Determined

365 Self Determined Project Guide (Free)

Each year, 4-H members use the Self Determined Project Guide to explore a topic that is presently unavailable as a statewide project. This publication allows members to outline the areas of interest and activities they wish to conduct over the course of their project. Order one “Self Determined Project Guide” for each self determined project that you wish to take. In 2003, counties will have the opportunity to send members to compete at the Ohio State Fair during Self Determined Project Day. (Note: Be sure to check out our list of Idea Starter topics for a Self Determined project.)

Idea Starters—Self Determined Project Resources (Free)

“Idea Starters” may be just the thing to get you started in an area that interests you. Use these two page publications as a resource for your Self Determined project. You may choose to do a little or a lot depending on your level of interest in any of these topics. Use in conjunction with the 4-H 365 Self Determined Project Guide. For the latest listing of Project Idea Starters, contact your county

OSU Extension office or visit our web page at www.ag.ohio-state.edu/~idea. If an Idea Starter is unavailable for the topic you wish to explore, you can still explore the topic of your choice by using only the 4-H 365 Self Determined Project Guide.

365.01—Astronomy

365.02—Model Railroad

365.03—Weather

365.04—Clowning

365.05—Rocks, Minerals and Fossils

365.06—Quilt Making

365.07—Computers

365.08—Assistance Dogs

Sheep

198 Market Lamb Project and Record Book

Complete this required project book every year a market lamb project is taken.® Use in conjunction with the 194R Sheep Resource Handbook to monitor your management decisions.

199 Pilot Sheep Breeding Project and Record Book

Complete this required project book every year a sheep breeding project is taken.® Use in conjunction with the 194R Sheep Resource Handbook to monitor your production practices.

Required Resource Supplement for Sheep Projects

194R Sheep Resource Handbook for Market and Breeding Projects

Order only once and use for several years. It contains essential subject matter information for members taking a market lamb or sheep breeding project. This is an excellent resource for Skill-a-thons. (\$6.00)

Optional Supplements for Sheep Projects

101R Livestock Evaluation Reasons Notebook

This optional book for older youth will assist you in preparing notes for oral reasons in judging contests. Use this in conjunction with 103R Beef, Sheep and Swine Selection and Evaluation. (\$5.25)

103R Beef, Sheep and Swine Selection and Evaluation

This optional resource is for beginners who want to learn more about selecting and evaluating livestock. Order it only once and refer to it when selecting projects or before attending a judging contest. (\$2.25)

104R Pennsylvania Livestock Judging Manual

This optional book will assist older youth with advanced evaluation skills in utilizing performance data in judging contests. Order it once and refer to it for information on how to handle market animals and understanding EPDs. (\$2.00)

Shooting Sports

4-H Shooting Sports Program

❖ Recommended for use by project advisors. There are NO member manuals for this program. This leader-directed program is to be taught by certified volunteers only.

Teach young people the safe and responsible use of archery equipment and the fundamentals of firing air guns, .22 caliber and black powder rifles, pistol and shotguns and the basic principles of hunting. Project literature is available only to adults who have completed a 4-H Shooting Sports Training Workshop. Check with your county Extension office for more details.

Shooting Sport Record Books

These record books will help 4-H members set goals for the year and keep an accurate record of their work and their accomplishments.

750 Rifle Record Book

751 Archery Record Book

752 Shotgun Record Book

753 Pistol Record Book

754 Hunting and Wildlife Record Book

755 Muzzle Loading Record Book

Small Engines

541 Crank It Up

Learn about basic small engine parts, tools of the trade, and safety. You'll have fun discovering how engines work.

542 Warm It Up

Go a little deeper in the world of small engines. Learn different engine types and sizes, internal parts, specialized tools, compression, seasoning your engine, and starting your own business.

543 Tune It Up

Take on new challenges with small engines as you learn how to tear down and rebuild engines. You'll also use diagnostic tools, learn about engine selection, and become familiar with small engine regulations.

Volunteer Supplement for Small Engine Projects

544HG Small Engine Helper's Guide

This guide is for volunteer leaders who are working with young people in any of the three levels of small engines. It has activities and ideas to make your group meetings more fun and educational. (\$2.25)

Sportfishing

760 4-H Sportfishing

The 4-H sportfishing program is based on the shooting sports model.

❖ Recommended for use by project advisors. There are NO member manuals for this program. This leader-directed program is to be taught by certified volunteers only. Project literature is available only to adults who have completed a 4-H Sportfishing Training Workshop. Check with your county Extension office for more details. Fishing is a sport that can be enjoyed a lifetime. This program teaches fishing technique, tackle crafting, fishing ethics and environmental issues.

Swine

139 Market Hog Project and Record Book

Complete this required project book every year a market hog project is taken.® Use in conjunction with the 134R Swine Resource Handbook to monitor your management decisions.

140 Pilot Swine Breeding Project and Record Book

Complete this required project book every year a swine breeding project is taken.® Use in conjunction with the 134R Swine Resource Handbook to monitor your production practices.

Required Resource Supplement for Swine Projects

134R Swine Resource Handbook for Market and Breeding Projects

Order only once and use for several years. It contains essential subject matter information for members taking a market hog or swine breeding project. This is an excellent resource for Skill-a-thons. (\$10.00)

Optional Supplements for Swine Projects

101R Livestock Evaluation and Reasons Notebook

This optional book for older youth will assist you in preparing notes for oral reasons in judging contests. Use this in conjunction with 103R Beef, Sheep and Swine Selection and Evaluation. (\$5.25)

103R Beef, Sheep and Swine Selection and Evaluation

This optional resource is for beginners who want to learn more about selecting and evaluating livestock. Order it only once and refer to it when selecting projects or before attending a judging contest. (\$2.25)

104R Pennsylvania Livestock Judging Manual

This optional book will assist older youth with advanced evaluation skills in utilizing performance data in judging contests. Order it once and refer to it for information on how to handle market animals and understanding EPDs. (\$2.00)

Theater Arts

593 Soaring Into Action

Learn about acting, puppetry, sound effects, color and stage make-up. Complete at least seven project activities and three "Call Board" activities each year. This project can be repeated two to three years.

594 Quest for Expression

Expand on activities and experiences related to theater arts, including costuming, props, voice, and stage presence. Complete at least seven project activities and three "Call Board" activities each year. This project can be repeated two to three years.

595 Voyaging Beyond

Do advanced acting skills and practice organization skills, character development, and set design. Complete at least seven project activities and three "Call Board" activities each year. This project can be repeated twice.

Tractor and Machinery Operation

550GPM Safe Operation of Agricultural Equipment

❖ Recommended for project advisors and classroom teachers. Discover why accidents occur on even conscientious farms. Then learn the importance of driving safely behind the wheel of a tractor. (\$6.50) ®

Required Supplement for Tractor Project

550R Safe Operation of Agricultural Equipment

Workbook for members who are taking 4-H 550 project as a group or part of the 4-H tractor certification program. (\$6.50)

Trapping

622 Trapping Muskrats in Ohio

In this project, learn about the biology and behavior of muskrats and how to ethically and humanely trap muskrats.

Veterinary Science

241 The Normal Animal

Recognize basic veterinary practices and how they influence animals' health, comfort, recreation and livestock values. When using in conjunction with horses, purchase and complete 190R Equine Record Book.

242 Animal Disease

Recognize animal behavior as an indicator of disease and learn signs and symptoms of animal diseases. When using in conjunction with horses, purchase and complete 190R Equine Record Book.

243 *Animal Health-Relation to World*

Independently investigate veterinary medicine, animal behavior and health in relation to our changing world. When using in conjunction with horses, purchase and complete 190R Equine Record Book.

Water Science

602GPM *Beans About Water*

❖ Recommended for 4th-8th grade teachers or project advisors.

Learn about water, its properties and other states of matter with the help of soy-related products. Lessons include the study of water density, surface tension, cohesion, adhesion, coagulation, polymerization and suspension. Total of four lessons designed for groups of 25. Ages 10 and up. (\$2.00)

Weather

603GPM *Weather Together*

❖ Recommended for 4th grade teachers or project advisors.

This group project is ideal for teaching youth about weather. Included are activities which focus on what makes the weather and constructing instruments that accurately measure its changes. Also provided is an opportunity to forecast the weather using folklore predictors and a web-based weather forecaster. Group project only.

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Welding

573 *Arcs and Sparks—Shielded Metal Arc Welding*

Recommended for use by 4-H members wanting to build, modify and/or repair steel-based projects. Learn about safety, selection of equipment and materials, and fabricating techniques with shielded metal arc welding. Basic welding abilities will be developed while constructing several useful projects.

Wildlife

770 *Wildlife Habitat Evaluation Program (WHEP)*

❖ Recommended for use by project advisors.

There are NO member manuals for this project. To be taught by certified volunteers only. Project literature is available only to adults who have completed a 4-H WHEP Coaches Training Workshop. Check with your county OSU Extension office for more details. 4-H WHEP is designed to teach youth the fundamentals of wildlife management. Components of 4-H WHEP are identifying wildlife foods, interpreting wildlife habitat from aerial photographs, prescribing wildlife management practices and developing urban and rural wildlife management plans.

Woodworking

556 *Measuring Up—Level 1*

Get started in woodworking by selecting a project helper and setting up a safe place to work with wood working tools such as: ear and eye protection, ruler or tape measure, a square (utility, try framing or combination), a hand cross cut saw, a coping saw, an electric drill, clamps, a screwdriver, a hammer and sand paper. Build and finish a project of your choice.

557 *Making the Cut—Level 2*

Select a wood project that will show off your new skills with: a T-level, a miter box, a wood chisel, a hand jig saw, a scroll saw, a hand stapler and a power sander. You will also learn more about the different species of wood.

558 *Nailing it Together—Level 3*

Build a more complex project using dowel joints, spline joints or tongue and groove joints. Learn to use a circular saw, radial arm saw, table saw, router, hand plane, power stapler, pipe clamps, and adjustable bar clamps to complete a project activity of your choice.

559 *Finishing Up—Level 4*

Challenge yourself to learn hand-cut dovetail joints, mortise and tenon joints. Use a power router, various planers, and a power jointer to create a project of your choice. You will also learn about veneer and common adhesives, as well as stripping and repairing wood.

Advisor Supplement for Woodworking Project

560HG *Woodworking Helper's Guide*

This guide is for volunteer leaders who are working with young people in any of the four levels of woodworking. It has activities and ideas to make your group meetings more fun and educational. (\$2.25)

Writing

587 *Writing and Reporting for Teens*

Write, report and photograph your way to fame! This project is designed to provide practical experience in news gathering and reporting and contains some basic activities designed to help youth become a competent reporter and writer. This advanced level project is recommended for teens age 14-19 who have basic skills in English and a working knowledge of cameras. May be taken more than once.

588 *Creative Writing*

Take the first step as a writer or poet and exercise your creativity with activities designed to stimulate your imagination and writing skills. This intermediate-level project is recommended for youth age 12-19 years old and may be taken more than once.

Understanding 4-H Member Recognition in Ohio

This section provides answers to some basic questions about the various levels of member recognition provided for project work, club work, leadership, citizenship, and community service.

Level 1: Member Participation

Q: *So, members can be recognized simply for being active in their project and club?*

A: Yes they can. Members who regularly attend club meetings, take part in club and project events, provide project demonstrations, community service and the like, typically receive a 4-H Certificate of Achievement, 4-H 900. Advisors can order copies of these certificates through the county Extension office. Member year pins are also available through the National 4-H Supply Catalog.

Level 2: Achievement of Goals

Q: *What incentives are there for members to complete the personal and group goals set for their 4-H projects?*

A: Members who complete their projects as planned can receive one of Ohio's 4-H Project Achievement Certificates, (4-H 905-908). These are awarded based upon the level of difficulty of the project (beginning, intermediate, advanced) as specified in the *Family Guide to 4-H*. There is also a special certificate available if members plan and complete a Self-Determined project.

Q: *How do members qualify for an Ohio 4-H Project Achievement Certificate?*

A: As outlined in the project review section of the project manual, members must take part in an evaluation. This may be done at home with a parent, adult helper or project advisor; or at a time or location agreed upon by the club. This review is designed to assess member achievement of project goals rather than "how well" a project was completed. If all is satisfactory, the club advisor then orders the appropriate level Project Achievement Certificate from the county Extension office.

Q: *Are there other types of achievement awards beyond completion of projects?*

A: Yes. Your county may offer a special type of award for active and cooperating 4-H members. This "honor member" type of award includes recognition of member involvement in leadership, citizenship and community service activities. It also includes recognition of member participation in 4-H including club and community activities. Consideration for such an award may be done as part of a member's project review, or at a time agreed upon by the club. This may also be the time when a "final grade" is assigned to each member.

Q: *When would members receive these types of achievement awards?*

A: Awards like these deserve special recognition. Typically, membership and project achievement type awards are presented at a special time agreed upon by the club.

Level 3: Achievement of Standards

Q: *How should members prepare themselves if they plan to take part in county level judging?*

A: County level judging assesses the "quality" of each individual's project performance. For example, a member who planned and completed four of seven project Interest Areas extremely well, should receive a higher evaluation than a member who planned and completed seven of the seven areas poorly. Typically, grade level ribbons are awarded to reflect member achievements at this level.

Check with your county Extension office for specific items to bring to county level judging. This should include the project manual with completed project planning section as well as a project exhibit. Exhibit items might include such things as a poster or something that you made or produced. You may even be asked to demonstrate a particular skill. This evidence will guide the judge in assessing "how well" you completed what you planned.

Level 4: Competing With Others

Q: *How is this level different from the previous three levels?*

A: This level focuses on comparing individual performances. This means being assessed against standards of excellence while compared with the achievements of others. For example, completing five of seven project areas extremely well may not be enough. Additional evidence may be needed for consideration as "project winner" including mastery of project knowledge and skills, and significant accomplishments in citizenship, leadership and community service. Maintaining project records is also an essential qualification for achievement at this level. Typically, trophies, rosettes and state fair participant honors are awarded to "winners" at this level.

Q: *Where does this level of recognition occur?*

A: This level of recognition is an extension of county level judging. It usually takes place once all members have been interviewed for a particular project and grade ribbons have been assigned. It is also provided through the state and county fair, state and county contests and events. Additional opportunities for recognition at this level are provided through county, state and national level award programs. This includes local, state and national 4-H scholarships, events and award trips. Refer to the following summary of awards and opportunities for details.

Saying Thank You

Many 4-H members will receive medals, certificates, scholarships, bonds, trips and other awards in recognition of efforts put forth in the 4-H program. One among many lessons to be learned from receiving awards is the importance of saying "thank you."

Without thank you's from the award winners, many of the donors would decide 4-H'ers weren't grateful for their award. If we don't have donors, we won't have awards. Please be sure to thank your sponsor or donor.

2003 Opportunities and Awards for Members

1. Participation in State

Activity	Sponsor	Description
Eqpugt xcvkqp'Eco r	Bob Evans Farms, Inc. Ohio Federation of Soil and Water Conservation Districts	Land use planning and leadership training in the areas of soil and water, forestry, wildlife, and human impact at the State 4-H Camp; 88 counties participating.
6/J 'Ngcf gt uj k'Eco r	Nationwide Ohio Farm Bureau Federation	Leadership and Citizenship training at the State 4-H Camp; 88 counties participating.
Qj kq'6/J ' qwj 'Gzr q	Wendy's International Ohio 4-H Foundation American Dairy Association and Dairy Council Mid-East Local county sponsors	This event brings together Ohio's older 4-H youth in a spirit of celebration, exploration, and personal development; 88 counties participating.
Qj kq'Uy kpg'l qwj 'Ej cngpi g	Animal Sciences Dept. Ohio Pork Producers Assn.	Held in February in conjunction with the Ohio Pork Congress. Registration due by January 20.
Uj qqvpi 'Gf wecvkqp'Eco r	4-H Shooting Sports Committee Ohio Department of Natural Resources National Rifle Association	Gun and bow safety education, marksmanship, and personal development for youth ages 12-16. Held at Canter's Cave 4-H Camp in Jackson, OH.
Dweng{ g'Ngcf gt uj k'Y qt mjj qr	Local county sponsors and/or individual member	Learning experience for older youth and adult leaders focusing on recreation and leadership within a group setting.

2. Participation in National

Ekk gpij k/Y uj lpi vqp'Hqewu (15 years and older)	Local County sponsors and/or individual member	Citizenship and leadership training at National 4-H Center, Washington, D.C. Any 4-H member may participate.
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3. Opportunities and Awards for Individuals

Qj kq'6/J 'Co dcuxf qt, , ,	Wendy's International, Inc. Ralph J. Stolle Family Ohio 4-H Foundation	Teens become eligible to be a State 4-H Ambassador based on their documented accomplishments in 4-H, leadership, public speaking, and community service activities. Once eligibility has been verified, the teens are invited to attend Ohio 4-H Youth Expo and receive initial training. Upon completion of initial training, they are officially installed as Ambassadors and are recognized. Ambassadors are then eligible to represent Ohio's 4-H youth at various county, state, and national events.
State Achievement Awards*	Various sponsors	Includes a trip to National 4-H Congress. Areas include: Beef, Citizenship & Community Service, Clothing & Textiles, Dairy, Dairy Goats, Environmental Sciences, Family Life & Child Development, Foods & Nutrition, Gardening & Horticulture, Health & Safety, Horse, Leadership, Mechanical & Engineering Sciences, Personal Development, Rabbits & Poultry, Sheep, Shooting Sports, Swine and Veterinary Science. Recognition provided at state awards banquet and National 4-H Congress in Atlanta, GA.
Local Government Award*	Ohio Township Association	Two \$1,500 awards are available to any 4-H high school senior who has completed a local government-type activity with significant impact on the applicant's community, township or county.
Ohio Dairy Goat Conference*	Ohio Dairy Goat Association	Four delegates selected to attend the Ohio Dairy Goat Conference held in Columbus. Available to current Dairy Goat project members.
National 4-H Dairy Conference*	Genex/CRI COBA/Select Sires, Inc. Dairy Farmers of America	Six delegates selected to attend National 4-H Dairy conference held in Madison, Wisconsin.

3. Opportunities and Awards for Individuals

Activity	Sponsor	Description
State Jr. Fair Board*	The Ohio State Fair	Two members (one male and one female) per year selected to serve on State Junior Fair Board.
Health and Safety Speaking Award	Ohio Rural Electric Cooperatives	Jr. & Sr. members compete at District and State public speaking events; top 4 winners receive special recognition and a possible trip to a national event.
Ewppkpi j co '6/J 'Ngcf gtuj kr" Cy ctf *****	Cunningham 4-H Leadership Fund	\$700.00 awarded to one former 4-H member, currently attending The Ohio State University, recognizing achievements in the areas of 4-H, academics, and leadership.
*Uvgxg'T0'Tcwej '6/J 'Eqngi kcvg" Cy ctf , , , , "	Steve R. Rauch, Inc.	\$5,000.00 awarded over three years to one former 4-H member, currently attending The Ohio State University in the College of Food, Agricultural, and Environmental Sciences, recognizing achievements in the areas of 4-H experience, agricultural industry, and academic excellence.
Lqj p'O qwpv'Cej lxxgo gpv'Cy ctf , , , ,	John T. Mount 4-H Achievement Fund	\$1,000.00 awarded to one former 4-H member attending The Ohio State University, recognizing achievements in the areas of leadership, scholarship and service.
Xcpeg'Hco kf 'Eqngi kcvg" Uej qctuj kr , , , , "	W. Chaney & Jane S. Vance Family 4-H Fund	\$2,000 awarded to two, and \$1,500 awarded to one, current Ohio 4-H member and current senior in high school; or a current or former Ohio 4-H member and a freshman, sophomore, or junior at OSU main campus or any regional OSU campus; who is also planning to attend or currently attending the College of Food, Agricultural and Environments Sciences or the College of Human Ecology.

4. Opportunities and Awards for Judging Teams

P cvkqpcn6/J 'F ckt { 'Lwf i lpi 'Eqpvguw1 Ucvg'F ckt { 'Lwf i lpi 'Vgco	Ohio State Fair and various state sponsors	Trip to national 4-H dairy judging event in Madison, Wisconsin.
P cvkqpcnNkxguqeniLwf i lpi 'Eqpvguw1 Ucvg'NkxguqeniLwf i lpi 'Vgco	Steve R. Rauch, Inc., Ohio State Fair, Auctioneer Kevin Wendt, Prime Time AgriMarketing Network, and Ironton Vision Center	Trip to national judging contest in Louisville, Kentucky held in November.
6/J 'P cvkqpcnGpi lpggt lpi . 'Uelkpeg'cpf " Ngcf gtuj kr 'Gxgpwu	Ohio-Michigan Equipment Dealers, and Power Show Ohio	Sr. members compete at state engineering events including electric, computer, small engine, tractor, bicycle, compact tractor, and aerospace. Top winners in each State Fair class win an expense paid trip to the national engineering event.
P cvkqpcnRqwn { 'Eqplgt gpegUcvg" Rqwn { 'Lwf i lpi 'Vgco 'Cxlcp'Dqy n" Vgco 'Ej kengp'DDS . 'Vwtng { 'DDS (' " Gi i 'F go qpust cvkqp'E qpvguwu	Ohio Poultry Association	Trip to Louisville, Kentucky, to participate in 4-H poultry events.
Geugt p'P cvkqpcn6/J 'J qtug'Tqwpf / Wt lUcvg'6/J 'J qtug'Dqy nVgco ." Lwf i lpi 'Vgco . 'Uclgv 'Ur genlpi " Eqpvguwcpw'cpf 'J qtug'F go qpust cvkqp	All American Youth Horse Show Mid Ohio Walking Horse Association State 4-H Horse Committee	Partial support to participate in 4-H horse bowl event in Louisville, Kentucky.

5. College Scholarships (continued)

Ohio Scholarships	# Available in State	Sponsor	Eligibility
*Rcwl('Gvj gm'Uo luj '6/J '' Uej qctuj lr, ,	10-\$2,500	Smith 4-H Endowment Fund	Ten \$2,500 scholarships will be awarded. Applicants must be a present or former 4-H member, senior in high school, and planning to enroll as a freshman in the fall at The Ohio State University, ATI, or any of the regional campuses, in the College of Food, Agricultural, and Environmental Sciences, including the School of Natural Resources, to pursue an education in farming or agriculture.
*Cni c'6Rgi ÷+'Y gexgt '' 6/J 'Uej qctuj lr, ,	2-\$1,200	Alga "Peg" Weaver 4-H Scholarship Fund	Applicants must be 4-H members, seniors in high school during the year of application, planning to enroll in the College of Human Ecology at The Ohio State University. Recipient will be awarded \$400 for three (3) consecutive quarters providing the recipient maintains a minimum GPA of 2.0 or above on a 4.0 scale.

6. International Opportunities

For more information on 4-H international opportunities, please contact your county OSU Extension Office or Mary Lynn Thalheimer, State 4-H Office, 2120 Fyffe Road #25, Columbus, OH 43210-1084. Phone 614-292-6941, FAX 614-292-5937 or e-mail: thalheimer.1@osu.edu.

Host Family*****

Welcome an international visitor into your home. Youth and adults come from more than 20 countries and stay with host families for two weeks to one year. 2003 exchangees will come from Japan (approximate dates July 26-August 20) Denmark (July) and other countries around the world (September 24-December 4). Deadlines vary, February 28 to May 15.

- For: interested Ohio families.
- Applications available from your county OSU Extension Office.

International Study Tours*****

Travel to different countries for 17 days to study the local cultures and participate in a short-term stay with a host family. *Note:* This program operates on "even" years only, and will next travel in either 2004 or 2006.

- For: Youth ages 13 to 20 (flexible).
- When: 2 weeks, mid-June to mid-July QT winter break
- Where: Europe, Great Britain, New Zealand or Botswana
- Cost: Approximately \$3,000 per person.
- Applications available from your county OSU Extension Office.
- Application deadline: February 28, 2004 or 2006

IFYE Ambassador*****

Visit a foreign country for six weeks, living with two host families.

- For: Youth ages 15 to 25.
- When: June 21-August 2, 2003.
- Where: Various countries around the world.
- Cost: \$3,000 to \$3,600, plus domestic airfare.
- Applications available from your county OSU Extension Office.
- Application deadline: January 31, 2003 or soon after.

IFYE Representative*****

Visit a foreign country for six months; live with various host families and travel independently during a three week break.

- More than 20 countries can be visited including Luxembourg, Portugal, Switzerland, Costa Rica, Czech Republic, Germany, Botswana, Norway and others.
- For 4-H alumni 19 to 30.
- When: June through December, 2004.
- Cost: \$3,200. Partial and full scholarships available through the Ohio 4-H Foundation and private donors to selected participants. (Scholarships available up to age 25 only.)
- Applications available from your county OSU Extension Office, and are due in the State 4-H Office by October 31, 2003.
- Selections will be held in December 2003.

4-H Japanese Exchange*****

Delegates travel to Japan to live with a Japanese family for one month. They take part in LABO camps and are involved in a variety of activities with their host families. Optional language training is available. *Note:* This program operates on "odd years" only and will next travel in 2003.

- For youth ages 12 to 19.
- When: July 9 to August 8, 2003.
- Cost: Approximately \$3,000 per person.
- Applications are available from your county Extension office.
- Application deadline: February 28, 2003

Promote International Understanding*****

- Invite an Ohio IFYE (International 4-H Youth Exchange) Representative to share what he or she learned while living in another country.
- Volunteer as an adult coordinator of international activities (ICC) in your county.

- * Ohio 4-H Achievement Record to be completed and submitted to county OSU Extension office before January 31.
- ** Ohio 4-H Scholarship Application Sheet to be completed and submitted to county OSU Extension office before January 31.
- *** State 4-H Ambassador Application Form to be completed and submitted to county OSU Extension office before January 31.
- **** Special Scholarship Application Form to be completed and submitted to State 4-H Office by February 15.
- ***** International Youth Exchange Traveler Application Form and/or Host Family Application Form to be completed and submitted to State 4-H Office on designated dates.

4-H Project Selection Guide

This guide will help 4-H families, clubs and groups select projects for the year. (This includes members enrolled in one-project clubs, EFNEP groups and special community and school programs.) It provides most of the information necessary to make intelligent project choices. Please check the actual project book for specific requirements. Information provided in this guide includes:

◆ **Project Description** - The page number of each project description.

◆ **Younger Members** - This symbol (○) indicates if the project is ideal for 8 to 10 year-olds.

◆ **Project Skill Level**

B — Indicates a beginning-level project for members with no experience in a project area, or 8-10 year olds.

I — Indicates an intermediate-level project for members with some experience in a project area, or 11-13 year olds.

A — Indicates an advanced-level project for experienced members in a project area, or 14 or older.

X—Indicates a combination of age levels. Please check the project book for appropriate age levels.

◆ **State Competition** — Projects to be judged at the Ohio State Fair are indicated by this symbol (☆). 4-H members are normally selected for state fair events as a result of county fair competition. Although participation in fairs is optional, we encourage family involvement in this type of learning activity.

◆ **Project Resources** - Projects that require additional resources, such as a Resource Handbook, member's project guide or livestock record, in addition to the project manual are indicated with a ®.

◆ **Group Projects** - Designed to be taken as group projects only. Each contains ready-made lesson plans for project advisors to use. Members may decide to take one or more of these as a group project. All group project manuals (GPM) are identified by this symbol ❖.

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Discovering 4-H

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
91 Discovering 4-H 1	5	○	B			
92 Discovering 4-H 2	5	○	B			
93 Discovering 4-H 3	5	○	B			

Exploring 4-H

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
94 Exploring Animals	5	○	B			
95 Exploring Energy	5	○	B			
96 Exploring Me and My Home	5	○	B			
97 Exploring Plants	5	○	B			

Aerospace Science

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
501 Rockets Away (2-liter bottles)	5	○	B	☆		
501GPM Rockets Away	6		B	☆		❖
502 Science of Flight	6	○	B	☆		
*503 Rockets Away (Estes type)	6	○	B	☆		

All Terrain Vehicles

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
555GPM All Terrain Vehicle	6		B	☆		❖

Aquariums

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
625 GPM Fishy Science	6	○	B			❖
626 Keeping Fish Alive	6	○	B			
627 Special Aquarium Setups	6		B			
628 Aquatic Plants	6		I			

Archery

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
631 Basic Archery	6		B	☆		

Athletics

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
300 You're the Athlete	6					

Beef

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
113 Market Beef Project and Record Book	7		X	☆	®	
114 Pilot Beef Breeding Project and Record Book	7		X	☆	®	
116 Beef Feeder Calf Project and Record Book	7		X		®	
119 Dairy Beef Feeder Project and Record Book*	7		B		®	

Beekeeping

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
641 Beekeeping Manual-Basic	7		B	☆		

Bicycle

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
517 Bicycle Adventure I*	7	○	B	☆		
518 Bicycle Adventure II*	7		I	☆		
519 Bicycle Adventure III*	7		A	☆		

Cage Birds

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
170 Cage Birds in Home	7		B		®	

Cats

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
216 Cat-1 Purrr-fect Pals	7	○	B	☆	®	❖
217 Cat-2 Climbing Up	7		I	☆	®	❖
218 Cat-3 Cat Connections	7		A	☆	®	❖

Child Care

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
431 Living and Learning with Children	8		B	☆		
432 More Living and Learning w/Children	8		I	☆		
433 Teens Learn about Children	8		A	☆		

Citizenship/International

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
396 And My World I... The World Around Me	8		B	☆		
397 And My World II... People and Customs of the World	8		I	☆	®	

* 2003 new projects

Clothing

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
406 Clothes for High School and College	9		A	☆		
407 Accessories for Teens	9		B	☆		
408 Creative Costumes	10		A	☆		
409 Ready Let's Sew	8	○	B	☆		
410 Fun with Clothes	8	○	B	☆		
412 Sew for Others	9		I	☆		
413 Joyful Jumper	9		B	☆		
415 Active Sportswear	10		I	☆		
416 Lounging Clothes and Undergarments	10		A	☆		
417 Dress-Up Outfit	10		A	☆		
419 Tops For Tweens	9		B	☆		
420 Outer Layers	9		A	☆		
423 Sportswear for Spectators	10		I	☆		
424 Clothing for Middle School	9		I	☆		
425 Frugal Fashions	9		A	☆		
426 Clothing for Your Career	10		A	☆		
427 It's Time for Clothing—Beginner	8	○	B	☆		
428 It's Time for Clothing—Intermediate	9		I	☆		
429 It's Time for Clothing—Advanced	9		A	☆		

Cloverbuds

710GPM Ohio Cloverbud Program	10		B		◆	
711GPM Ohio Cloverbud Program II	10		B		◆	

Communications Resources

909R Demonstrations	10		I	☆		
970R Tools for Public Speaking	11		I	☆		

Creative Arts

592 Art as Expression	11		X	☆		
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Cultural Awareness

956GPM Invent; An African-American Inventor's Curriculum	11		X		◆	
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Dairy Cattle

122 Dairy Calves and Heifers Project and Record Book*	11		B	☆	®	
126 Dairy Cows Project and Record Book*	11		A	☆	®	

Dog Care and Obedience

200 Dog Care	11		X	☆	®	
201 Dog Guides for the Blind	11		X	☆	®	
204 Grooming and Handling Dogs	11		X	☆	®	
206 Dog Obedience Training-Beginning	11		B	☆	®	
207 Dog Obedience Training-Advanced	11		A	☆	®	

Electricity

527 Magic of Electricity	12		B	☆		
528 Investigating Electricity	12		I	☆		
529 Wired for Power	12		I	☆		
530 Entering Electronics	12		A	☆		

Field Crops

660 Corn	12		A	☆		
661 Small Grains	12		B	☆		
662 Soybeans	12		B	☆		

First Aid

352 Safety in Everyday Living (First Aid)	12		B	☆		
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Fishing

623 Fishing for the Beginner	12		B	☆		
624 Fishing for the Intermediate	12		I	☆		

Food Science

489GPM Breads of Harvest	12		B		◆	
490 Science Fun with Dairy Foods	12		A			
490GPM Science Fun with Dairy Foods	12		A		◆	

Foods and Nutrition

459 I Spy in the Kitchen*	13	○	B	☆		
461 Let's Bake Quick Breads	13		I	☆		
462 Yeast Breads on the Rise	13		A	☆		
466 Mini Meal Magic	13	○	B	☆		
467 You're the Chef	13		A	☆		
468 Meals in Minutes	13		I	☆		
469 The Global Gourmet	13		A	☆		
472 The Outdoor Chef	13		I	☆		
475 Star Spangled Foods	13		I	☆		
476 Pathways to Culinary Success*	13		A	☆		
481 Food & Fitness for Fun	13		B	☆		
482 Food & Fitness Choices for You	13		I	☆		
487 Fast Break for Breakfast	13		B	☆		

Forestry

613 Exploring Our Forests	13		I	☆		
614 Tree Planting	13		I	☆		

Gardening

673 From Seed to Flower	14		B	☆		
674 Indoor Gardening	14		I	☆		
691 Vegetable Gardening I	14		B	☆		
692 Growing with the Seasons	14		I	☆		
496GPM Growing Together*	14		B		◆	

Gardening—Junior Master Gardener

693 Junior Master Gardener Leader/Teacher Guide	14		B		◆	
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Genealogy

441 Family History Treasure Hunt	14		X	☆		
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Goats

130 Angora Goats	14		B	®		
131 Goat Manual	14		B	☆	®	

Grazing Management

100 Management Intensive Grazing	14		B	®		
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Gun Safety

630 Safe Use of Guns	14		B	☆		
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Health

349 Health A, Discovering Myself	15		B	☆		
350 Health B, Fun with Friends	15		I	☆		
352 First Aid (Safety in Everyday Living)	15		B	☆		
357 Alcohol Decisions	15		A	☆		
358 Tobacco and You	15		A	☆		
362GPM Tobacco Risk Awareness Program	15		B		◆	

	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
Home Decorating and Designing						
491 Adventures in Home Living	15	B	☆			
493 Furniture and Woodwork Recycling	15	I	☆			
494 Designing Interiors	15	I	☆			
495 Your First Home Away From Home	15	A	☆			

Home Equipment

403 Exploring the World of Small Appliances	15	I				
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Horses

171 Basic 4-H Horsemanship	15	B	☆			
172 Basic 4-H Horse Science	15	B	☆			
173 Horseless Horse	15	○	B			
175 Light Horse Selection	15	I	☆	®		
178 Basic Horse Training	15	I	☆	®		
180 Learning to Jump	15	I	☆	®		
181 Draft Horse	16	I	☆	®		
182 Horse Nutrition	16	A	☆	®		
183 Equine Reproduction and Genetics	16	A	☆	®		
184 Standardbred Horse	16	I	☆	®		
188 Trail Riding	16	I	☆	®		
189 Dressage	16	I	☆	®		

Insects

644 Exploring Our Insect World I	16	B	☆			
645 Exploring Our Insect World II	16	I	☆			

Laundry

404 Laundry for Beginners	16	B				
405 Laundry-Advanced	16	I				

Lawncare

548 Lawncare	16	B	☆			
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Leadership

370 One on One	16	A	☆			
371 4-H Club Teen Leadership	16	A	☆			
372 Multi-Level Teen Leadership	16	A	☆			
373 Teen Leadership on the Job	16	A	☆			
374 Teen Boardmanship	17	A				
377 Speak Out	17	A	☆			
391 Leadership Skills You Never Outgrow I	17	B	☆			
392 Leadership Skills You Never Outgrow II	17	B	☆			
393 Leadership Skills You Never Outgrow III	17	I	☆			
394 Leadership Skills You Never Outgrow IV	17	A	☆			
511GPM CarTeens	17	B		®	❖	

Leisure Activities

496 Collectibles	17	B				
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Money Management

445 Becoming Money Wise	17	B	☆			
448 Teens...On the Road to Financial Success	17	A	☆			

Natural Resources

611 Let's Explore the Outdoors I	17	B	☆			
612 Let's Explore the Outdoors II	17	I	☆			
615 At Your Disposal: A Cleaner Environment	17	B	☆			
617 Exploring Ohio Ponds	18	B	☆			
621 Ohio Birds	18	B	☆			

Pet Care

215 Guinea Pig	18	○	B		®	
220 Small Animals Project Book	18	X			®	
230 GPM 4-H PetPALS	18	X				

Photography

579 Adventures with Your Camera-A	18	○	B	☆		
580 Adventures with Your Camera-B	18	I	☆			
583 Adventures with Adjustable Cameras	18	I	☆			

Plant Science

695 GPM Go Plants	19	B				❖
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Poultry

151 Poultry Production/Raising Pullets	19	B	☆			
152 Poultry Production/Raising Broilers	19	B	☆			
153 Raising Fancy Poultry	19	B	☆			
165GPM The Incredible Egg	19	B				❖
166 Raising Turkeys	19	I	☆			
167 Ducks and Geese	19	I	☆			

Rabbits

211 Rabbit I	19	B	☆	®		
212 Rabbit II and III	19	I	☆	®		
213 Rabbits - Advanced	19	A	☆	®		

Radio Controlled Vehicles

504 Radio Controlled Vehicles	19	B	☆			
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Rope

540 Rope	19	B	☆			
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Self-Determined

365 Self-Determined Project	19	A	☆			
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Sheep

198 Market Lamb Project and Record Book	20	X	☆	®		
199 Pilot Sheep Breeding Project and Record Book	20	X	☆	®		

Shooting Sports Group Projects

750 Rifle Record Book	20	B	☆			❖
751 Archery Record Book	20	B	☆			❖
752 Shotgun Record Book	20	B	☆			❖
753 Pistol Record Book	20	B	☆			❖
754 Hunting and Wildlife Record Book	20	B	☆			❖
755 Muzzle Loading Record Book	20	B	☆			❖

Small Engines

541 Crank It Up	20	B	☆			
542 Warm It Up	20	B	☆			
543 Tune It Up	20	I	☆			

Sportfishing

760 4-H Sportfishing	21	B				❖
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	Page	Younger Member	Project Skill Level	State Competition	Project Supplements	Group Projects
Swine						
139 Market Hog Project and Record Book	21	X	☆	®		
140 Swine Breeding Project and Record Book	21	X	☆	®		

Theater Arts						
*593 Soaring Into Action	21		B			
*594 Quest for Expression	21		I			
*595 Voyaging Beyond	21		A			

Tractor and Machinery Operation						
550GPM Safe Operation of Agriculture Equipment	21		B	☆	®	◆

Trapping						
622 Trapping Muskrats in Ohio	21		I	☆		

Veterinary Science						
241 The Normal Animal	21		I	☆		
242 Animal Disease	21		I	☆		
243 Animal Health - Relation to World	22		A	☆		

Water Science						
602GPM Beans About Water	22		B			◆

Weather						
603GPM Weather Together	22		B			◆

Welding						
572 Arcs and Sparks	22		I	☆		

Wildlife						
770 Wildlife Habitat Evaluation Program	22		B			◆

Woodworking						
556 Measuring Up	22		B	☆		
557 Making the Cut	22		I	☆		
558 Nailing it Together	22		A	☆		
559 Finishing Up	22		A	☆		

Writing						
587 Writing and Reporting for Teens	22		A	☆		
588 Creative Writing	22		I	☆		

* 2003 new projects

4-H Project Literature Request Sheet for 4-H Members*

*(Use only if one is not provided by your 4-H volunteer/club advisor)

Name: _____

Street: _____

City: _____ State: _____ Zip: _____ Phone _____

4-H Club Name: _____

Pub. #	Name	Cost
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Project Supplements/Helpful Materials	Cost
_____	_____
_____	_____

Check here if you plan to take your project(s) to county-level judging and need county judging requirements.

Project Manuals (\$2/book)

Return this form with payment to your 4-H volunteer. Make checks payable to your county Extension office. Each project manual is \$2 unless stated otherwise by your county office. Required supplements vary in price.

OSU Extension Offices

Cfco u

Adams County Services Annex
215 North Cross St. Rm. 104
West Union 45693
(937) 544-2339

Cngp

3900 Campus Drive Suite B
Lima 45804
(419) 222-9946

Cujrcpf

804 US 250 East
Ashland 44805
(419) 281-8242

Cujvdwre

39 Wall St.
Jefferson 44047
(440) 576-9008

Cvjggu

280 W. Union St.
Athens 45701
(740) 593-8555

Cwircg

208 S. Blackhoof St.
Wapakoneta 45895
(419) 738-2219

Dgnopv

68323 Bannock Road
410 Fox Shannon Pl.
St. Clairsville 43950
(740) 695-1455

Dtqyp

740 Mt. Orab Pike
Georgetown 45121
(937) 378-6716

Dwugt

1810 Princeton Rd.
Hamilton 45011
(513) 887-3722

Ecttqm

32 West Main St.
Carrollton 44615-1336
(330) 627-4310

Ejco rclip

1512 South U.S. Highway 68
Suite B100
Urbana 43078
(937) 484-1526

Emtm

Suite #104
4400 Gateway Blvd.
Prime OH Corp. Park
Springfield 45502
(937) 328-4607

Engto qpv

P.O. Box 670
1000 Locust St.
Owensville 45160
(513) 732-7070

Erhpwp

111 S. Nelson Ave.
Suite 2
Wilmington 45177
(937) 382-0901

Egmo dlepc

7876B Lincoln Place
Lisbon 44432-8322
(330) 424-7291

Equi qevpp

724 S. 7th St.
Coshocton 43812
(740) 622-2265

Etscy htf

117 E. Mansfield St.
Bucyrus 44820
(419) 562-8731

Ewfcej qic

2490 Lee Blvd.
Suite 108
Cleveland 44118-1255
(216) 397-6000

Fctng

700 Wayne St.
Greenville 45331
(937) 548-5215

Fgpep

06879 Evansport Road,
Suite B
Defiance 43512
(419) 782-4771

Fgrey etg

Suite 5, 560 Sunbury Rd.
Delaware 43015
(740) 368-1925

Gtlg

2900 S. Columbus Ave.
Sandusky 44870
(419) 627-7631

Hckl grf

Suite D, 831 College Ave.
Lancaster 43130
(740) 653-5419

Hc{gwg

1415 US Rt. 22 SW, Suite 100
Washington CH 43160
(740) 335-1150

Hicpnlp"

2105 S. Hamilton Road
Suite 100
Columbus 43232
(614) 462-6700

Hwvpp"

135 Courthouse Plaza
Wauseon 43567
(419) 337-9210

Icnlc

Room 1572
111 Jackson Pike
Gallipolis 45631
(740) 446-7007

Igcwic

14269 Claridon-Troy Rd.
P.O. Box 387
Burton 44021
(440) 834-4656

I tggpg

100 Fairground Rd.
Xenia 45385
(937) 372-9971

I wgt pug{

1112 Wheeling Ave.
Cambridge 43725
(740) 432-9300

Jco kupp

110 Boggs Lane
Suite 315
Cincinnati 45246-3145
(513) 946-8989

Jcpeqem

7868 CR 140, Suite B
Findlay 45840
(419) 422-3851

Jctfhp

Suite 40, 1 Courthouse Square
Kenton 43326
(419) 674-2297

Jcttkupp

538 N. Main Street
Suite H
Cadiz 43907
(740) 942-8823

Jgpt{

Suite 107, Hahn Center
104 East Washington St.
Napoleon 43545-1646
(419) 592-0806

Jkijrcpf

119 Gov. Foraker Pl.
Hillsboro 45133
(937) 393-1918

Jqenlpi

150 N. Homer Ave.
Logan 43138
(740) 385-3222

Jqogun

165 N. Washington St.
Millersburg 44654
(330) 674-3015

Jwtqp

180 Milan Ave.
Norwalk 44857
(419) 668-8219

Lcempp

275 Portsmouth St.
P.O. Box 110
Jackson 45640
(740) 286-5044

Lghgtwpp

Stambaugh Plaza, Suite A
135 Main Street
Wintersville 43953
(740) 264-2212

Mpqz

1025 Harcourt Rd.
P.O. Box 1268
Mt. Vernon 43050-1268
(740) 397-0401

Neng

99 E. Erie St.
Painesville 44077
(440) 350-2582

Ney tpepg

Courthouse
1 Veterans Square
Ironton 45638
(740) 533-4322

Nenlpi

Suite 103
771 E. Main St.
Newark 43055
(740) 349-6900

Nqjcp

120 E. Sandusky Ave.
Suite 1
Bellefontaine 43311
(937) 599-4227

Nqtclp

42110 Russia Rd.
Elyria 44035-6813
(440) 326-5851

Nwecu

Room 550
One Government Ctr.
Toledo 43604
(419) 213-4254

Ocfkupp

217 Elm St.
P.O. Box 230
London 43140
(740) 852-0975

Ocj qplpi

490 S. Broad St.
Canfield 44406
(330) 533-5538

Oetkpp

222 W. Center St.
Marion 43302
(740) 223-4040

Ogf hpc

120 W. Washington St.
Medina 44256
(330) 725-4911

Ogliu

Mulberry Heights
P.O. Box 32
Pomeroy 45769
(740) 992-6696

Ogtegt

220 W. Livingston St. Suite 6
Celina 45822
(419) 586-2179

Oleok

201 W. Main St.
Courthouse
Troy 45373
(937) 332-6829

Oqptqg

Room 17
101 N. Main St.
Woodsfield 43793
(740) 472-0810

Oqpv qo g{

1001 S. Main St.
Dayton 45409
(937) 224-9654

Oqti cp

Reicker Bldg.
155 E. Main St., Suite 320
McConnelsville 43756
(740) 962-4854

Oqttqy

871 W. Marion Rd., Suite 102
Mt. Gilead 43338
(419) 947-1070

Ovunlpi wo

Room 6
225 Underwood St.
Zanesville 43701-3789
(740) 454-0144

Pqdg

150 Courthouse
Caldwell 43724
(740) 732-5681

Qweyc

240 W. Lake Street
Unit C
Oak Harbor 43449
(419) 898-3631

Rcwflpi

503 Fairgrounds Dr.
Paulding 45879
(419) 399-8225

Rgtt{

104 S. Columbus St.
P.O. Box 279
Somerset 43783
(740) 743-1602

Rlenry c{

Suite B
110 Island Rd.
P.O. Box 29
Circleville 43113
(740) 474-7534

Rlmg

120 S. Market St. Waverly 45690
(740) 947-2121

Rqtvcig

6970 S.R. 88
Ravenna 44266
(330) 296-6432

Rgdng"

119 S. Barron St.
Eaton 45320
(937) 456-8174

Rwpcp

219 S. Oak St.
P.O. Box 189
Ottawa 45875
(419) 523-6294

Tlej rppf

Suite 206
1495 West Longview Avenue
Mansfield 44906
(419) 747-8755

Tquf'

475 Western Avenue, Suite F
Chillicothe 45601
(740) 702-3200

Ucpl wunf

2000 Countryside Dr.
Fremont 43420
(419) 334-6340

Uelqy

Courthouse, Room 7
602 Seventh St.
Portsmouth 45662
(740) 354-7879

Ugpec

3140 S SR 100, Suite E
Tiffin 44883
(419) 447-9722

Uj gnd{

810 Fair Road
Sidney 45365
(937) 498-7239

Uctm lwo o l'

Regional Extension Education
Center
5119 Lauby Rd.
N. Canton 44720
(330) 497-1611

Vt wo dwn

303 Mahoning Ave NW
Warren 44483
(330) 675-2595

Vwucty cu

419 16th St. SW
New Philadelphia 44663
(330) 339-2337

Wplpp

246 W. Fifth St.
Marysville 43040
(937) 644-8117

Xcp'Y gtv

1055 S. Washington
Van Wert 45891
(419) 238-1214

Xlrvpp

P.O. Box 473
County Comm. Bldg.
McArthur 45651
(740) 596-5212

Ycttgp

Suite 102
1054 Monroe Road
Lebanon 45036
(513) 932-1891

Ycuj lpi vpp

206 Davis Ave.
Marietta 45750
(740) 376-7431

Yc{pg

428 W. Liberty St.
Wooster 44691
(330) 264-8722

Ylnko u

1122 W. High St.
Bryan 45306
(419) 636-5608

Yqqf

Suite 101
440 E. Poe Road
Bowling Green 43402
(419) 354-9050

Y{cpf qv

109 S. Sandusky Ave., Room 16
Upper Sandusky 43351
(419) 294-4931

FHVTVV

QHHREGU

East District
16714 SR 215
Caldwell 43724
(740) 732-2381

Pqt vj gcu'Fhntlev

Ohio Agricultural
Research and
Development Center
1680 Madison Ave.
Wooster 44691
(330) 263-3831
263-3832

Pqt vj y gnu'Fhntlev

Suite 202
1219 W. Main Cross St.
Findlay 45840-0702
(419) 422-6106

Uqwj 'Fhntlev

17 Standpipe Rd.
P.O. Box 958
Jackson 45640
(740) 286-2177

Uqwj y gnu'Fhntlev

Suite 208
303 Corporate Center Dr.
Vandalia 45377
(937) 454-5002

Cf xgppwtg'Egpt cn

2222 N. James H. McGee Blvd.
Dayton 45427
(937) 268-1037

Metro Parks

Canal Way Center
4524 E. 49th St.
Cuyahoga Hts. 44125
(216) 206-1010