

## 4-H SPECIAL INTEREST SECTION

**Check Project Completion Requirements in your project book. Members will be responsible for following the completion requirements.**

**No online fair entry required in the 4-H Special Interest Department.** Projects are entered automatically when the member enrolls in the project.

Names **MUST** be on all projects displayed at the fair. Posters must have names on the front. Unlabeled projects will be labeled by the Junior Fair Board, not responsible for any damage which could occur.

***For a member to achieve the progression of goals needed for development, 4-H projects must be separate and different from those carried in other organizations, such as FFA, Scouts, Camp Fire, Grange, Church, School (including technology education class, science fairs, but not including 4-H school enrichment projects), etc.***



**THE OHIO STATE UNIVERSITY**

COLLEGE OF FOOD, AGRICULTURAL,  
AND ENVIRONMENTAL SCIENCES

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Project#	Name of Project	Brief Description	Junior Fair Requirements
<b>ABOUT 4-H</b>			
91	Discovering 4-H 1 B	Complete all of the interest areas. Complete all of the activities in each interest area. Write a summary about this project and what you learned. Review your project book and the summary with a parent or project helper.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
92	4-H Around the Globe I	Learn about 4-H programs in other countries. Look at 4-H through an international lens, with close-ups of Ghana, Kosovo, Nicaragua, and South Korea. Complete all 7 activities and all Talking It Over questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.  Complete a project review.
<b>ANIMAL SCIENCES</b>			
135C	Companion - Pet Goat	Raise a pet goat for your project. Complete all of the project guidelines as outlined in the project and record book. Use 135 Goat Project and Record Book and 135R - Goat Resource Book.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book and records.
Youth who enroll in the Companion Pet Goat project are not permitted to show a goat in any other goat classes. This project is for youth who want to enjoy the companionship of a goat without the competitiveness of production/market classes.			
173	Horseless Horse B	For members who want to learn about horses without owning a horse. Member should have access to a horse and assist with conducting a horse show. Explore 4 interest areas per year. Project may be repeated.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.  <i><b>In addition</b></i> to Special Interest judging, member may enter Ground Roping Class (no horse required) at horse show. Entry must be made online by July 1.
200	All About Dogs B	For beginning members with little or no experience with dogs and who may/may not have a dog. Complete required video on page 3 of project book. Complete all 8 activities. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
201D	You and Your Dog	Complete all project guidelines as outlined on pages 5 and 6 of the project and record book. Complete project as appropriate for your type of project and your project level. Beginner – 8 to 10 years old or no project experience; intermediate – 11 to 13 years old or some project experience; advanced – 14 years and older or project experience. Use 201 Dog Project and Record Book and 201R Dog Resource Handbook.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.

Youth who show in the You and Your Dog project are not permitted to show a dog in any other dog classes. This project is for youth who want to enjoy the companionship of their dogs without the competitiveness of obedience, showmanship, agility, etc.

<b>Project#</b>	<b>Name of Project</b>	<b>Brief Description</b>	<b>Junior Fair Requirements</b>
215	Cavy Project and Record Book	Learn to feed, care, and manage and cavies (guinea pigs).	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
216	Cat 1 – Purr-fect Pals B	For youth who may or may not own a cat. Learn about breeds, behavior, good health, grooming and feeding. For youth in grades 3 to 5 or 1-3 year cat project members. Project may be repeated.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
217	Cat 2 - Climbing Up I	Own and care for one or more cats. Complete Cat 1 before taking this project. Learn breed identification and characteristics, training and showing, health and nutrition, and responsible ownership. For youth in grades 6 to 8, or after first project has been taken. Project may be repeated.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
218	Cat 3 – Leaping Forward A	Own and care for one or more cats. Complete Cat 1 and Cat 2 before taking this project. Learn about genetics and aging cats, investigate cat related careers. For youth in grades 9 to 12 or after the first two projects have been taken. Project may be repeated.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
220	Pocket Pets Project and Record Book	Species include gerbils, hamsters, mice, rats. Complete interest areas and age appropriate activities. Activities can be repeated or new species explored. Use 220R Pocket Pet Resource Handbook.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
227	Pet Rabbit	For youth not interested in raising breeding or market rabbits, but want a rabbit as a pet. Pet rabbits are not intended for youth to show a breeding rabbit that does not meet ARBA standards, a leftover market rabbit, or a rabbit as an afterthought. This project is for members whose rabbits, like dogs and cats, are their companions. Also required 228R – Rabbit Resource Handbook.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.

Youth who enroll in the Pet Rabbit project are not permitted to show a rabbit in any other rabbit classes. This project for youth who want to enjoy the companionship of a rabbit without the competitiveness of production/market classes.

762	Horse Nutrition A	Explores the areas of digestion, nutrients, feed stuffs, rationing, and poison plants and identification. Use 190R - Equine Record Book.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
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## **VETERINARY SCIENCE**

244	Veterinary Science 1, From Airedales to Zebras B	Learn about animals' basic needs, body systems, biosecurity, and basic vet tool identification. For youth in grades 3 to 5 or youth in the first 3 years of this project area. Project may be repeated.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
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<b>Project#</b>	<b>Name of Project</b>	<b>Brief Description</b>	<b>Junior Fair Requirements</b>
245	Veterinary Science 2, All Systems Go! I	Learn about proper environments, parasites, and causes of diseases. For youth in grades 6 to 8, or youth having completed Vet Science 1. Project may be repeated.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
246	Veterinary Science 3, On the Cutting Edge A	Learn about animal behavior, animal diseases, genetics, anatomy and physiology. Explore careers in vet medicine and other animal related industries. For youth in grades 9 to 12 or having completed Vet Science 1 and 2. Project may be repeated.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.

## **HEALTHY LIVING**

300	You're the Athlete I (Designed for ages 11 -14. Older youth may find useful as well.)	Learn the fundamentals of being a well rounded athlete. Learn important knowledge in the areas of: sportsmanship, time management, goal setting, nutrition and sports, strength and conditioning, leadership, conflict resolution, and careers in athletics. Complete the Game Plan, Play Book and Practice Field activities. Evaluate your accomplishments by completing My Season Highlights.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
351	Staying Healthy B	Complete the Planning Section - Steps 1-4. Explore all 12 Project Interest Areas by completing the Get Smart section and considering a Show Your Smarts section for your final project activity. Complete any 3 of the More Challenges activities listed throughout the book. Have your project helper initial and date each one you complete. Complete at least 2 organized project activities and at least 2 citizenship/Leadership activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
352	Keeping Fit I	Complete the Planning Section- Steps 1-4. Explore all 12 Project Interest Areas by completing the Record Your Data and Save Your Results activities. Complete your project by carrying out a 3 week fitness plan. Complete any 3 of the More Challenges activities listed throughout the book. Have your project helper initial and date each one you complete. Complete at least 2 organized project activities and at least 2 citizenship/leadership activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
353	First Aid in Action B	Complete the Planning Section of this Guide; Steps 1-4. Explore all 12 Project Interest Areas by completing the First Things First Call to Action activities. Complete any 3 of the More Challenges activities listed throughout the book. Have your project helper initial and date each one you complete. Complete at least 2 organized project activities and at least 2 citizenship/leadership activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book, your Family First Aid Kit and Family First Aid Cards or Instruction Book.

Project#	Name of Project	Brief Description	Junior Fair Requirements
357	Alcohol and Drug Abuse A (Designed for members 14+)	Explore the hazards associated with the consumption of alcohol. Complete all 12 activities and all 4 Talking It Over pages. Complete at least two learning experiences and at least two leadership/citizenship experiences. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
358	The Truth About Tobacco A	Learn about the threat of tobacco use. Complete all 8 activities, the More Challenges activities are optional. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
359	Your Thoughts Matter A	Learn about mental health and its importance to overall well being. Areas include: What is Mental Health?, Mental Health Disorders, Stigma and Self Help and Resources. Complete all 10 activities and all Talking It Over questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship experiences. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.

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#### SELF DETERMINED

365	Self Determined A (No age limit)	<p>The member has the freedom to determine and design his own project. This may be of two categories: 1.) Expansion of present project 2.) Develop a plan for a project not currently offered in Ohio. Use Idea Starters when available.</p> <p>365.01 Astronomy 365.02 Model Railroading 365.03 Weather 365.04 Clowning 365.06 American Sign Language 365.07 Computers 365.08 Discovering Genetics 365.09 Canoeing 365.10 Local Food 365.11 Camp Counseling 365.12 Miniature Gardens 365.13 Reptiles and Amphibians 365.14 Climate Change 365.15 Music 365.16 Viruses, Bacteria, and Fungi, Oh My! 365.17 Babysitting 365.18 Ways of Knowing Water 365.19 The Work World Is Calling 365.20 Paper Craft 365.21 Skateboarding 365.22 Pigeons 365.23 Native American Artifacts 365.24 Shale Gas Extraction 365.25 Flower Gardening 365.26 Hedgehogs 365.27 Ferrets 365.28 Chinchillas 365.29 Water Quality: Field to Faucet 365.30 String Art 365.31 Crop Production</p>	Completed Self Determined project guide and a poster or other educational display representing a learning experience directly related to the project. Specify topic to your advisor when you enroll. Judging schedule will depends on topic, you will be assigned to the judging date and time which most nearly fits your topic.
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<b>LEADERSHIP</b>			
370	One to One A	A mentoring project for teens 13 and over with at least two years of 4-H membership. Member will mentor at least one beginner member. Complete learning activities with younger member - minimum of 2 activities per interest area.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
371	Club Leadership I	Teens will work with a local advisor to develop and complete a leadership plan within the club. Complete all 10 activities. Plan and complete 3 other individualized goals. Complete at least 2 learning activities and at least 2 citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
372	Diversity: The Source Of Our Strength A	Explore the value of diversity in everyday situations. Complete all 8 activities, at least 2 learning experiences, and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
373	My Hands To Larger Service: Teen Leaders Building Our Communities A	For teens interested in leading a service project. Learn about the nature of service, making a plan, recruiting a team, conducting and evaluating a service project. Complete all 9 activities. Complete at least 2 learning book experiences and at least 2 leadership/citizenship projects. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
374	Teens On Board I	For teens serving on or are interested in serving on boards and committees. Complete all 9 activities and Talking It Over questions. Take part in at least 2 learning experiences and at least 2 leadership/citizenship projects. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
375*	Leadership Road Trip: Where Are You Going? I	Learn what it takes to be a good leader. Complete all 13 activities and Rest Stop questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete the project summary and project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
*375i – also available in iBook format – contact office is interested.			
376	Pantry Panic A	This project is a combined community service and foods project. Learn about meal planning with limited resources. Complete all 7 activities. Complete at least 2 leadership/citizenship activities and at least 2 learning experiences. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
377	Finding Your Voice: Public Speaking Made Easy B	For teens interested in serving on awareness teams, ambassadors, speakers' bureaus, and other public relations groups. Complete all 7 activities. Complete at least 2 leadership/citizenship activities and at least 2 learning experiences. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.

Project#	Name of Project	Brief Description	Junior Fair Requirements
378M A	Leadership Master	For teens who want leadership experiences different than the opportunities provided in provided in other leadership projects. Must be able to plan and complete a leadership experience with minimal supervision.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
382	Am I Ready For Work? I	For members preparing for their first paid job. Topics include: making a good first impression, money management, resumes, applications, references and interviews. Complete all nine activities and Talking It Over Questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
383 A	Club Leadership 2	Designed for 4-H members who want to improve their leadership and assistance to their club. Intended for club officers or committee chairs. Complete all 11 activities. Plan and achieve three goals or activities to benefit your club. Complete at least 2 citizenship activities and at least 2 learning experiences. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.

## GENEALOGY

442	Family History Treasure Hunt  12 and older, younger members enroll with project helper	Complete the 4 steps outlined on the What To Do requirements that matches your years in the project. Complete The Treasure Hunt, at least 1 other learning experience/organized 4-H activity and at least 1 leadership/citizenship activity each year. Complete records and a project review. Project may be taken up to six years.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book, correspondence log, research journal, pedigree charts, family group sheets.
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**\*Suggestion: DO NOT glue your family charts to your exhibit. Make copies and keep your originals in your notebook. Charts and family sheets are for continuing your family treasure hunt for another 4-H year and for your personal use for years to come.**

## MONEY MANAGEMENT

445 B	Becoming Money Wise Level 1 and 2 10-13 years	Level 1 (pages 6 to 19) – Complete all Money \$ense Activities. Complete all Money Talks Activities and as many optional More Money \$ense Activities as you desire. Complete organized, leadership and citizenship activities. Level 2 (pages 20 to 33) – Complete all Resource \$ense Activities. Complete all Money Talk Activities. Complete as many optional More Making \$ense Activities as you desire. Complete organized, leadership and citizenship activities.	Exhibit a poster or other educational display representing a learning experience related to to project. Completed project book.
448 A	Teens...On the Road to Financial Success Level 1 and 2 14 to 19 years	Complete the Planning Your Project section. Read the materials contained in each interest area and complete the activities. Complete at least 2 organized activities and at least 2 leadership/citizenship activities. Refer to your book concerning activities to complete in Levels 1 and 2.	Exhibit a poster or other educational display representing a learning experience related to the project (examples: filing system, 4 week spending log, banking services comparison, comparison shopping trip, possible career in finance). Completed project book.

<b>Project#</b>	<b>Name of Project</b>	<b>Brief Description</b>	<b>Junior Fair Requirements</b>
<b>HOME LIVING</b>			
405	The Laundry Project I	Learn about laundry machines and products, laundry and the environment, how to sort and clean your laundry. Learn how heat effects different fibers. Complete all 11 activities. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
432M	Sewing and Textiles Master A  Any age – advanced clothing construction skills needed	Plan, construct and evaluate at least one non-clothing fabric item. Item should be different from what you constructed. For members who want to make something other than guidelines of other projects or require specialized or professional level skills. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Explore career opportunities. Complete a project review.	Exhibit item you constructed. Completed project book.
491	It's My Home B	Learn basic design elements, organization, upcycling and service learning. Complete all 9 activities and Talking It Over questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit an item constructed for the project according to the requirements in the book, visuals to show how the item helps to make spaces in the home more pleasing and practical. Completed project book.
494	Makeover My Space I	Create a more pleasing and practical living space in an area of your home. Improve furniture arrangement, storage, space for entertainment and hobbies, furniture use, care & selection; or redecorate a room or area. Explore all 10 activities and 4 Talking It Over pages. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Keep records of accomplishments including pictures of your progress.	Exhibit visuals (items or pictures) according to the requirements in the book. Completed project book.
495	Your First Home Away From Home  (online)	Complete the Planning Section. Explore all 4 Interest Areas. Complete all activities within each Interest Area. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Prepare a folio or notebook including all records and worksheets.	Exhibit items selected for or made for your first home, representing the knowledge related to a learning experience in the project. Completed project book.
<b>CREATIVE AND LEISURE ACTIVITIES</b>			
492	Cake Decorating Project and Record Book	Complete at least 5 learning activities. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Keep a record your decorating skills and techniques and your cakes.	Exhibit cake, cupcake or Styrofoam base decorated and other display representing your current skill level in the project. Completed project book and activity records.



Project#	Name of Project	Brief Description	Junior Fair Requirements
496	My Favorite Things B	Learn to collect items of interest to you: sports cards, coins, figurines, leaves, autographs, rocks, etc. Learn skills related to collection and organization. Complete all 8 activities, at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a sample of your collection or a poster or other educational display representing a learning experience related to the project. Completed project book and activity records.
497	Scrapbooking B	Explore each of the four project areas by completing the activities 1-7 and making a scrapbook. Activity 8, Digi Scrappers, is optional the first year, but can be done if the project is taken more than one year. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit completed scrapbook, completed project book and activity records.
498	Quilting the Best Better I	For members who have completed #499 - <i>You Can Quilt!</i> Participants should make one lap quilt (as per pattern(s) provided in the project book.). Complete all 8 activities and all Quilting Quotes questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit your finished project (one lap quilt (as per pattern(s) in the project book. Completed project book and activity records.
<b>Note:</b> all mini quilts must be stitched or knotted by the 4-H member. All professional stitched quilts will be automatically judged as a self determined project and should be enrolled in the appropriate project.			
499	You Can Quilt! Intermediate project for members with some sewing experience	Explore each of the three project areas (Where to Start, Create Your Quilt Top, Put It Together) by completing all activities and making a mini quilt. Complete all 7 activities. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Write a project summary and take part in a project review.	Exhibit your practice pot holder, rail fence or four patch mini quilt made from patterns in the project book. Completed project book and activity records.
<b>Note:</b> all mini quilts must be stitched or knotted by the 4-H member. All professional stitched quilts will be automatically judged as a self determined project and should be enrolled in the appropriate project.			
592	Get Started in Art All ages and skill levels	Explore each of the 6 project areas by completing at least 1 activity from each project area. Complete at least 2 learning activities and at least 2 leadership/citizenship activities. Complete an art project and write a project summary.	Exhibit one project you have completed representing a learning experience related to The project. Completed project book and activity records.
593	Seeing Through Graphic Design I	Learn about graphic design and visual communication. Activities color, typography, design basics, symbolism and branding. Complete all 10 activities including Talking It Over questions. Complete at least 2 learning activities and at least 2 leadership/citizenship activities. Complete a portfolio and write a project summary and review.	Exhibit a project portfolio or a poster or other educational display representing a learning experience related to the project. Completed project book and activity records.

Project#	Name of Project	Brief Description	Junior Fair Requirements
<b>SCIENCE FUN</b>			
490	Science Fun with Dairy Foods B Individual or Group May be repeated	Complete the Planning Section. Conduct 4 of 9 project experiments. After each experiment, answer the Discovery Questions and at least one Dig Deeper activity. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Maintain a journal of project experiments. Record your observations and draw conclusions from your findings.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book and journal of project experiments.
493	Science Fun With Kitchen Chemistry B	Complete all 11 experiments. Private Proton's Challenges are optional. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience relate to the project. Completed project book and activity records.
500 B	Science Fun with Physics	Discover the mysteries of physics in everyday life. Experiment with forces of nature, energy the power of physics at work. Complete all 12 experiments. Complete at least 2 learning experiences and at least 2 citizenship/ leadership activities. Maintain a journal of project experiments. Record your observations and draw conclusions from your findings.	Exhibit a poster of other educational display representing a learning experience related to the project. Completed project and journal of project experiments.
<b>AEROSPACE</b>			
501	Rockets Away B  2 Liter Bottle Rockets	Learn the science of rocketry. Build and launch a 2-liter bottle water rocket. Follow project guidelines on page 3. Launchers may be ordered through the address provided in the Ohio Family Guide to 4-H or borrowed from the Extension office.	Exhibit your bottle rocket or other educational display representing a learning experience related to the project. Completed project book.
502	Science Fun With Flight B	Learn about the forces of flight. Build and fly a glider or airplane from scratch or kit. Member may wish to build a plastic model of favorite jet or airplane. Follow project guidelines on page 2.	Exhibit your model plane or other educational display representing a learning experience related to the project. Completed project book.
503	Rockets Away B  Solid Fuel Rockets	Learn the science of rocketry. Build and launch an Estes-type rocket. Follow project guidelines on page 3.	Exhibit your model rocket or other educational display representing a learning experience related to the project. Completed project book.
503M	Solid Fuel Rocketry Master A	For members having completed project #503 who want to develop specialized rocketry skills. Complete at least 2 learning experiences and at least 2 citizenship/ leadership activities. Complete your records.	Exhibit your model rocket or other educational display representing a learning experience related to the project. Completed project book.

Project#	Name of Project	Brief Description	Junior Fair Requirements
<b>RADIO CONTROLLED VEHICLES</b>			
504	Electric Radio Controlled Vehicles I	For members who own or want to own a battery operated radio controlled car or truck. Multiple year project if a new car if built each time. If using the same car again, enroll in #365 – Self Determined. Complete the safety checklist, all ten activities and all three records. The “more challenges” are optional.	Exhibit your radio controlled car or truck or a poster or another educational display representing a learning experience related to the project - include pictures of the vehicle built. Completed project book.
* - Members with radio controlled boats, gas powered vehicles and aircraft should take a self-determined project in this area. These items would not be eligible for state fair competition in this category.			
<b>ROBOTICS</b>			
507	Robotics 1, LEGO® EV3 I	Use LEGO® technology to learn what a robot is and how to build and program one. Activities are based on the LEGOS® EV3 Core Set. Go to <a href="http://www.ohio4h.org/robotics">www.ohio4h.org/robotics</a> for details. A computer and internet access is required.	Exhibit a robot or a poster or another educational display representing a learning experience related to the project - include pictures of the robot built. Completed project book.
508	Robotics 2: EX3N More A	Designed for youth of all ages with advanced robotics skills and who have completed project #507. All activities are based on the LEGO® EV3 system, robot constructed in Robotics 1 is required. Computer and internet access are necessary. Complete all 7 activities. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Write a project summary/review.	Exhibit a robot or a poster or another educational display representing a learning experience related to the project - include pictures of the robot built. Completed project book.
512M	Robotics Master A	For members wishing to explore beyond the current Robotics projects or using a different robotics platform. Complete at least 2 learning experiences and at least 2 citizenship activities. Complete your records.	Exhibit a robot or a poster or another educational display representing a learning experience related to the project - include pictures of the robot built. Completed project book.
<b>BICYCLE</b>			
517	Bicycling For Fun B	Study parts, minor adjustments helmets, rules of the road, etc.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
518	Wheels in Motion I	Learn care of tires, chain, wheels and brakes. Learn anatomy of a bike, safety rules.	Exhibit a poster or other educational display representing a learning experience directly related to the project. Completed project book.
<b>ELECTRICITY</b>			
527	Magic of Electricity B	Explore electrical energy. Begin to build circuits using batteries, light bulbs and wire.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.

<b>Project#</b>	<b>Name of Project</b>	<b>Brief Description</b>	<b>Junior Fair Requirements</b>
528	Investigating Electricity I	Decode circuit diagrams. Learn the difference between series and parallel circuits as you build switches and solder strong connections.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
529	Wired for Power I	Learn about electrical energy used around the house. Test for grounding, trace circuitry and calculate circuit load on outlets in your home.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
530	Entering Electronics A	Learn fundamentals of electronics. Learn the difference between a resistor and a capacitor. This project should be taken after member has completed project #528 and has soldering skills and circuitry knowledge.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
531	Science Fun with Electricity B	Explore the history and application of electricity. Conduct experiments following the timeline. Follow the project guidelines on page 5.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.

## **ROPE**

540	Not Just Knots	Learn how to make 14 basic knots, bends and hitches. Make a final capstone project (from book or design your own) to share the knowledge you have gained. If project is repeated, select a new capstone project representing new skills learned in that year. Complete all 17 activities and all of the Talking It Over questions. Complete at least 2 learning experiences and at least 2 citizenship/leadership experiences and write a book review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book. Members may be required to identify or tie knots.
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## **SMALL ENGINES**

541	Crank It Up B	Designed for members in grades 3-5. Learn about small engine parts, tools and safety. Project may be repeated. Complete at least 7 activities from the book per year.	Exhibit a poster or other educational display representing a learning experience related to the project. Exhibit must be derived from activities in the book. Completed project book.
542	Warm It Up I	Designed for members in grades 6-8. Learn about engine types and sizes, parts, tools. Project may be repeated. Complete at least 7 activities from the book per year.	Exhibit a poster or other educational display representing a learning experience related to the project. Exhibit must be derived from activities in the book. Completed project book.
543	Tune It Up I	Designed for members in grades 9-12. Learn to tear down and rebuild engines. Project may be repeated. Complete at least 7 activities from the book per year.	Exhibit a poster or other educational display representing a learning experience related to the project. Exhibit must be derived from activities in the book. Completed project book.

<b>Project#</b>	<b>Name of Project</b>	<b>Brief Description</b>	<b>Junior Fair Requirements</b>
<b>ENERGY</b>			
550	Young Engineers in Solar Energy I	Introduction to the sun as an energy source. Complete all 9 activities (including a capstone project) and all of the Talking It Over questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
<b>TRACTOR</b>			
551	Tractor 1: Starting Up B	Learn about parts of the tractor, maintenance, fuels, engine cooling systems, and safety.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
552	Tractor 2: Gearing Up For Safety I	Learn about farm/tractor safety, maintenance, mechanics of engines, and equipment functions.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
553	Tractor 3: Moving Out I	Learn about safety, maintenance, oil systems, fuel safety and PTOS.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
554	Tractor 4: Learning More A	Learn about mechanics, operational systems, safety, maintenance and farm equipment.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
<b>ATV</b>			
555	All Terrain Vehicles	For both experienced and inexperienced and inexperienced riders. Emphasis is on safety, equipment, vehicle selection, maintenance and mechanics. Follow project guidelines in the project book.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.

Project#	Name of Project	Brief Description	Junior Fair Requirements
<b>WOODWORKING</b>			
556	Measuring Up B	For members with little or no woodworking experience. Set up your wood shop with tools such as: eye and ear protection, ruler or tape measure, square, hand cross cut saw, coping saw, electric drill, clamps, screwdriver, hammer and sand paper. Skills include measuring, squaring, cutting, drilling, sanding use of basic hand tools, nails and screws, procedures and lumber dimensions. Member is expected to do 90% or more of the project. Helper may dimension lumber to the correct width. Item made should be from the project book or require the same skills as contained in the project book. Complete at least 7 activities per year. Complete at least 2 woodworking leadership experiences. Project may be repeated up to 3 years.	Exhibit a display that includes using any non-power tools (hammers, saws, clamps, layout tools, chisels, etc.). Plus the following power tools with safety instruction & adult supervision: sanders and drills, saber saw and scroll saw. Use of all tools not required. Completed project book. Complete skill test at judging.
557	Making the Cut I	Learn to use: T-level, miter box, wood chisel, hand jig saw, scroll saw, hand stapler, power sander. Learn about measuring, cutting, drilling, sanding, advanced hand tools and basic power tools, selecting an applicator, painting, using bolts, staples and glue. Explore wood species and characteristics. Member is expected to do 100% of the project. Helper may demonstrate and advise only. Item made should be from the project book or require the same skills as contained in the project book. Complete at least 7 activities per year. Complete at least 4 woodworking leadership experiences. Project may be repeated up to 3 years.	Exhibit a display that includes using tools included in #556 and the following power tools with safety instruction & adult supervision: miter saw, table saw, drill press, band saw, thickness planer, cordless trim saw, scroll saw, power drill, saber saw, power sander and power nailing devices. Use of all tools not required. Completed project book. Complete skills test at judging.
558	Nailing It Together A	Build a project using dowel, spline or tongue and groove joints. Learn to use circular saw, radial arm saw, table saw, router, hand plane, power stapler, pipe and adjustable bar clamps. Skills include: measuring angles, cutting, drilling, finish sanding, applying stains, using hinges and brackets. Member is expected to do 100% of the work. Helper may demonstrate and advise only. Item made should be from the project book or require the same skills as contained in the project book. Complete at least 7 activities per year. Complete at least 4 Woodworking leadership experiences. Project may be repeated up to 3 years.	Exhibit a display that includes using a wide variety of hand and power tools including: radial arm saw, lathe, router, power circular saw, miter saw, table saw, drill press, band saw, thickness planer, cordless trim saw, power nailing devices, saber saw, power drill, scroll saw, power sander, biscuit joiner and shaper with safety instruction & adult supervision. Use of advanced joining techniques (mortise & tenon), pocket holes, dovetails, etc.) encouraged if matched to member skills. Use of all tools not required. Completed project book. Complete skills test at judging.

Project#	Name of Project	Brief Description	Junior Fair Requirements
559	Finishing Up A	For members competent in using power tools such as: table, jig and radial arm saw, drill press. Skills include: developing a plan, using a router, portable planer and jointer, making blind mortise and tenon or dovetail joints. Member is expected to do 100% of the work. Helper may demonstrate and advise only. Item made should be from the project book or require the same skills as contained in the project book. Complete at least 7 activities per year. Complete at least 4 woodworking leadership experiences. Project may be repeated up to 3 years.	Exhibit a display that includes using all non-power and power tools with safety instruction & adult supervision. Use of all tools not required. Completed project book. Complete skills test at judging.
560M	Woodworking Master A	For members wishing to make a woodworking project in a category different than the current woodworking projects or that require specialized skills. Complete at least 2 Learning Activities and become involved in at least 2 Citizenship Activities. Project should show creativity, proper joinery technique, good layout & design. Projects might include: intarsia, carvings, marquetry, lathe work, original designs and antique furniture reproductions.	Exhibit a display that includes using all non-power and power tools with safety instruction & adult supervision. Use of all tools not required. Completed project book. Complete skills test at judging.

## WELDING

573	Arcs & Sparks I	Learn to build, modify and/or repair steel based projects. Learn safety, equipment and procedures. Project may be repeated. Build at least two items from back of the project book. Members repeating this project should build two additional items.	Exhibit two welding projects. One item will be one of the recommended projects in the book. Second project can be of optional design. Completed project book.
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\*All welding on projects must be done using Shielded Metal Arc Welding (SMAW), commonly referred to as stick welding. For state fair – items must fit to be wheeled in on hand dolly. The project would have to fit in an imaginary box 6 ft.x6 ft. x 3 ft or for larger weldments class - it is preferred that projects be no larger than 8 ft. x 8 ft. and 20 ft.

## PHOTOGRAPHY

All photographs must be the member's original work taken specifically for the project in which they are enrolled.

584	Focus On Photography B	Beginning project designed for youth with no prior experience in photography. Explore each of the four project areas by completing the activities as outlined on page 3 of the project book. Complete at least 2 organized project experiences and at least 2 citizenship/ leadership experiences. Project may be repeated as outlined on page 3 of the book. Members may take only one photography project per year.	Exhibit one single print or photo story or collection of prints. <b>Single print</b> - any size. <b>Photo story</b> - at least 5 and not more than 10 prints. <b>Collection of prints</b> - illustrate an activity in the book and consist of at least 5 and not more than 10 prints. All prints are mounted at the exhibitor's discretion. Developing and printing may be done by exhibitor. Exhibitor may bring other materials to demonstrate learning experiences in the project. Completed project book.
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\*\*Members may use either film or digital cameras.

Project#	Name of Project	Brief Description	Junior Fair Requirements
585	Controlling The Image I	Intermediate project designed for youth with prior experience in photography and those who have completed Focus on Photography. Explore each of the four project areas by completing the activities as outlined on page 3 of the project book. Complete at least 2 organized project experiences and at least 2 citizenship/leadership experiences. Project may be repeated as outlined on page 3 of the book. Members may take only one photography project per year.  *Suggested for members with 1-3 years of photography experience.	Exhibit one print, enlargement, collection of prints or news story. <b>Single print</b> - any size. <b>Enlargement</b> - accompanied by original print. <b>Collection of prints</b> - illustrate one of the activities in the book and consist of at least 5 and not more than 10 prints. <b>News story</b> – single original photo accompanied by the published article. Prints mounted at the discretion of the exhibitor. Developing and printing may be done by the exhibitor. Exhibitor may bring other materials to demonstrate learning experiences in the project. Completed project book.
<b>**Members may use either film or digital cameras.</b>			
586	Mastering Photography A	Advanced project designed for youth with experience in photography and those who have completed Controlling the Image. Explore each of the 4 project areas by completing the activities as outlined on page 3 of the book. Complete at least 2 project experiences and at least 2 citizenship/leadership experiences. Project may be repeated as outlined on page 3 of the book. Members may take only one photography project per year.  *Suggested for members with more than 3 years photography experience.	Exhibit one print, enlargement, collection of prints or news story. <b>Single print</b> - any size. <b>Enlargement</b> of a single print accompanied by original print. <b>Collection of prints</b> - illustrate one of the activities in the book and consist of at least 5 and not more than 10 prints. <b>News story</b> - single original photo accompanied by the published article. Prints mounted at the discretion of the exhibitor. Developing and printing may be done by the exhibitor. Exhibitor may bring other materials to demonstrate learning experiences in the project. Completed project book.
<b>**Members may use either film or digital cameras.</b>			
589M	Photography Master A	For members wishing to make a photography project in a category different than the current photography projects or that require specialized skills. Explore the 4 project area as outlined on page 4 of the project book and choose from the organized project experiences. Complete at least 2 learning activities and at least 2 citizenship/leadership activities.	Exhibit at least one print display mounted at your discretion illustrating the best of the photographs in the area of interest you selected. You may bring any materials you feel will demonstrate learning experiences, but are not required to do so. Photo editing, photochemical developing, and printing may be done by the exhibitor, and is encouraged.

**Equipment to view digital images and or portfolios must be provided by the exhibitor. Be aware that Internet/WiFi service will not be available at the judging site!** Images should be contained on your display devices.



Project#	Name of Project	Brief Description	Junior Fair Requirements
<b>WRITING</b>			
588	The Writer In You	For all ages with some previous experience in creative writing. Complete all 11 activities and all of the Talking It Over questions. In Activity 11 you will be asked to create a writing portfolio. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review. <b>Must have been written for this project. Materials written for school may not be used.</b>	Exhibit two samples of your original writing. Type (double spaced) or neatly print on 8 ½" X 11" paper. Completed project book.

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## NATURAL RESOURCES

**Guns, bows, arrows, ammunition, and firearms of any kind are not permitted on the fairgrounds. Participants may not use any of these items or three-dimensional replicas of these items as a part of any display. Displays also may not include any part of an arrow longer than 6 inches. Displays may not include any 'loaded' ammunition. Any shells or casings must be open so that a visual examination can show that there is no powder in ammunition (the caps must be either absent or expended). Any wild bird feathers, except legal game species, and all birds nests and eggs are protected under state and federal laws and are not permitted to be collected, possessed, or a part of any display.**

611	Explore the Outdoors B	Introduction to outdoors and conservation. Take field trips to discover plants, trees, animals in the woods, fields, and streams. Complete all nine activities and the Talking It Over questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete the project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
612	Geology: Can You Dig It? B	Learn about rocks, minerals and fossils. Learn where to find these items, how to identify them, and how they are formed. Complete all 8 activities and Talking It Over questions. Complete at least 2 learning experiences and 2 leadership/citizenship activities. Complete your field journal and project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
617	Exploring Ponds	Learn about ecosystems of ponds, the water cycle, watersheds, pond health and organisms that live there. Complete all 9 activities and all of the Talking It Over questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete the project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
620	Why Trees Matter B	Learn about the role of trees in everyday life. Complete all 6 activities. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete the project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
621	Ohio Birds B	Learn to identify birds at your feeder or in nature. Make two bird feeders and learn to identify 20 different species of birds. Complete all 5 activities. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete the project review.	Exhibit bird feeder constructed from project book and a poster or other educational display representing a learning experience related to the project. Completed project book.

Project#	Name of Project	Brief Description	Junior Fair Requirements
622	Trapping Muskrats In Ohio I	Learn about muskrats and how to ethically and humanely trap them. Complete at least 2 projects in the book. Project divided in 2 levels.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
623	Outdoor Adventurer: Beginning Fishing B	Enjoy outdoor experiences by fishing; learn more about conservation; fish found in Ohio, plus other activities. Complete all 8 activities, All Talking It Over questions and the Fishing Log. Take part in at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
624	Outdoor Adventurer: Intermediate Fishing I	Learn about how to find fish and how to get them to bite. Learn about cleaning fish. Complete all 11 activities including the Talk It Over questions and the fishing log. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
630	Safe Use of Guns B	Learn safety of handling & storing guns; and safety when using them. For youth with little or no experience in shooting sports. Parent or other responsible adult must supervise. Suggested that project only be taken once. Complete all 11 activities and Talking It Over questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book. <b>See requirements above regarding exhibits.</b>
631	Basic Archery B	Learn fundamentals of archery as a sport. Learn the basics of archery safety.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book. <b>See requirements above regarding exhibits.</b>

## BEEKEEPING

641	Beekeeping Project And Record Book	Project covers colony care and management, and basic record keeping. Study one or more bee topics each year, complete 5 learning activities and 2 learning experiences. First year bee keepers are not required to have their own hives but need a project helper who is a bee keeper. Requires outside resources. Project may be repeated.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
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## ENTOMOLOGY

644	Insect Adventures 1 B	Designed youth with little or no knowledge about insects. Learn basics of entomology and how insects connect to our world. Complete all 7 activities, including an insect collection. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review. 644R Insect Collection Guide required (not currently available).	Exhibit an insect collection with a minimum of 30 specimens. Completed project book. <b>Optional:</b> poster or other educational display representing a learning experience related directly to the project.
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Project#	Name of Project	Brief Description	Junior Fair Requirements
645	Insect Adventures 2 I	Learn more about insects by learning about caterpillars, recognizing relatives of insects, building a new trap, and identifying friendly predators. Complete all 8 activities, including an insect collection. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review. 644R Insect Collection Guide required (not currently available).	Exhibit an insect collection with a minimum of 40 specimens. Completed project book. <b>Optional:</b> poster or other educational display representing a learning experience related directly to the project.
646	Insect Adventures 3 A	This project takes you to expert level by learning to dissect a grasshopper, explore the history of insects, investigate trapping, and welcome "beneficials." Complete all 7 activities, including an insect collection. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review. 644R Insect Collection Guide required (not currently available).	Exhibit an insect collection with a minimum of 50 specimens. Completed project book. <b>Optional:</b> poster or other educational display representing a learning experience related directly to the project.
<b>GARDENING</b>			
670	Canning and Freezing I	Explore water bath canning and freezing home preservation methods. Become familiar with canning equipment and freezing methods. Complete all seven activities. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book.
671	How Does Your Garden Grow? B	For members with limited or no flower gardening experience. Complete 5 of the activities that guide decision making and preparation of a flower garden, 2 learning experiences and 2 leadership activities. May be repeated a second year, intermediate and advanced members should enroll in a Self Determined project.	Exhibit an attractive planter, arrangement, or hanging basket. Completed project book. <u>First year</u> - grow at least 3 types of annual flowers, plan and care for a garden at least 25 sq. feet (5'x5') in size. If gardening in containers, grow three types of annuals. <u>Second year</u> - grow at least 5 types of annual flowers, plan and care of a garden at least 50 square feet in size. If gardening in containers, grow five types of annuals.
691	Grow Your Own Vegetables	For members of all ages interested in growing your own vegetables. Project may be repeated if different plants and new garden designs are used each year. Complete all 11 activities and all of the Talking It Over questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a display of 4 different vegetables (not more than 3 of each) grown in your garden. Completed project book.
692	Growing With the Seasons I	Learn to make the most of your garden space by growing seasonal crops. Complete all 9 activities (including growing vegetables) and Talking It Over questions. Complete at least 2 learning experiences and at least 2 leadership/citizenship activities. Complete a project review.	Exhibit a display of four different vegetables (not more than 3 of each) grown in your garden. Completed project book.

Project#	Name of Project	Brief Description	Junior Fair Requirements
<b>SHOOTING SPORTS</b>			
750 – 757	Shooting Sports B	Only certified instructors may lead these projects. Members must enroll in the 4-H Shooting Sports Club. Only disciplines with certified instructors will be offered. Contact Extension Office to determine which disciplines are currently offered and details on the club.	Exhibit a poster or other educational display representing a learning experience related to the project. Completed project book. <b>See requirements below regarding exhibits.</b>

Disciplines Include:

- 750 Rifle
- 751 Archery
- 752 Shotgun
- 753 Pistol
- 754 Hunting and Wildlife
- 755 Muzzleloader
- 756 Living History
- 757 Crossbow
- 758 Western Heritage

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