

**2020-2021**  
**4-H PROJECT CODES & DESCRIPTIONS**  
**Fulton and Montgomery Counties**  
**(UPDATED 09/2020)**

*A 4-H project is a learning experience consisting of sequential lessons that occur over a span of at least six hours of instruction. In a club setting, 4-H members are guided by an enrolled 4-H volunteer adult or 4-H teen leader. Independent members are guided by their parent(s) or guardian or another adult designated by his/her supervising parent.*

*4-H project work is expected to be the work of the 4-H member. While working together and learning as a group is valuable and encouraged, a member's project work is an individual's learning experience. 4-H Member Project Record Book entries are encouraged at the conclusion of each 4-H project to record what one has learned and to ensure accuracy and good recordkeeping habits.*

*The curriculum listing below reflects the projects available for enrolled 4-H members in Fulton and Montgomery Counties. Not every item made in a 4-H project may be suitable or eligible to be entered in the county fair. Members and leaders should consult the Fonda Fair 4-H Premium Book for project eligibility, class numbers and description. The decision to enroll in a project or not should not be based solely on its county fair eligibility. 4-H members should select projects that reflect their individual learning interests.*

<b>CODE</b>	<b>CURRICULUM CATEGORY</b>	
<b>A</b>	<b>CITIZENSHIP AND CIVIC EDUCATION</b>	<b>DEFINITIONS</b>
<b>AB</b>	<b>Citizenship</b> (local, state, national) Public Adventures Gr 4-12	Understanding of government and active participation in community life and community problem solving. <i>YCA definition: community development (youth identify a need or issue, take action, engage adults in the process, and make meaningful change in the community).</i>
<b>AC</b>	<b>Cultural Education</b> !Que Rico La Cultura Bilingual Gr K-8* Exploring Our Food Heritage Heirloom Gardening Heritage Projects The Three Sisters The Great American Peanut The Humble Potato – age 9-12 Rice: Grain of the Ancients The Appealing Apple – age 9-12 Garden Mosaics Diversity/Pluralism Projects Food, Culture & Reading Curriculum	Passing on valued knowledge, skills and tradition to succeeding generations; more than one culture, national origin, race or creed; reciprocal visits, and/or inbound or outbound delegate(s).  *!Que Rico La Cultura Bilingual is designed with each activity in English and in Spanish, side-by-side. Project activities include experiences in traditional art forms of instrument making, jewelry making, waving, muraling, storytelling, mosaics, and yarn art. Youth experience celebrations that surround the holidays in the Latino culture.  *Through experiential activities, youth will recognize a variety of healthful foods, taste new foods from other cultures, explore the similarities of food, & develop an understanding & appreciation of cultures that are different than their own.
<b>AE</b>	<b>Intergenerational Programming</b> Project EASE – ages 9-13 Walk in My Shoes – Gr K-12 Using Plants to Bridge the Generations – Gr K-6	Educational efforts to link youth to another generation in a common cause.
<b>AG</b>	<b>Volunteerism</b>	Learning about the importance and nature of services done of one's own free will for the benefit of others.

<b>AH</b>	<b>Service Learning</b> Community Service Learning Hunger Project Simple Gifts  Agents of Change	Acquiring personal skills and knowledge in the process of performing service for others through an organized program followed by personal reflection. <i>YCA definition: Youth learn why a proposed activity is important, plan and conduct the activity and reflect upon the experience.</i>  Youth identify community needs, plan a service project, and execute their ideas
<b>AI</b>	<b>Community Service</b> Club Community Service Other Community Service	<i>YCA definition: Adults decide upon the activity and youth provide the person power.</i>
<b>AJ</b>	<b>Genealogy</b> Tracing My Family Tree	Have you ever wondered about your ancestors? Who they were and where they lived? You have the opportunity to research these questions and find the answers as you participate in the 4-H Genealogy project. Genealogy, the tracing of your family history, can be a fascinating project. This manual will help youth start on a never-ending journey which he/she will enjoy even after their 4-H career ends.
<b>B</b>	<b>COMMUNICATIVE AND EXPRESSIVE ARTS</b>	
<b>BA</b>	<b>Communication Arts</b> Communications – Express Yourself Lev 1 Picking Up The Pieces Lev 2 Putting It Together Lev 3 The Perfect Fit	Interchange of thought or information as a verbal or written message.
BAA	Speaking	Demonstrations, public speaking, illustrated talks, preparing programs for radio and/or TV.
BAB	Writing/Print	Journalism, written communication, creative writing, poetry.
BAC	The Writer in You	Find the motivation you need to start or continue your exploration of the art of writing. Explore why to write, where to get ideas, theme, character, plot and setting, word choice, imagery, and dialogue. Keep it all in one place to create the year's portfolio. - Designed for the 4-H member and is appropriate for the intermediate skill level and all ages.
<b>BB</b>	<b>Performing Arts</b>	Communicating through action displaying special skills such as a public exhibition.
BBA	Clowning/Mime Puppetry	Entertaining through pantomime and/or role playing acts.
BBB	Dance/Movement	Rhythmic and harmonized body movement, spontaneous or controlled.
BBC	Drama/Theater Theater Arts: Imagination in Action! (Targeted to Grades 5-8) Level 1 – Beginner Level 2 – Intermediate Level 3 - Advanced	Activities in communication, improvisation, pantomime, script writing, cultural and historical influences, stage design and costume design. Life skills and workforce development concepts woven throughout curriculum.
<b>BC</b>	<b>Visual Arts</b>	Give form and meaning through creative processes involving line, color, form, pattern and texture in two and three dimensions.
BCA	Arts and Crafts A Palette of Fun – Gr K-6 Candle making Adventures in Leathercraft Stained Glass 4-H Scrapbooking *	Knowledge or skill requiring some degree of manual dexterity in production of an aesthetic object. *Learn how to capture memories in a scrapbook with photos, captions and memorabilia.

BCB	Drawing, Painting, Sculpting Sketchbook Crossroads – Gr 7-8 Portfolio Pathways – Gr 9-12	Drawing in pencil, charcoal pencil, felt-tip pen, stick charcoal, crayon, colored chalk or pastel, brush & ink, or calligraphy; Painting in oil, watercolor, acrylics or mixed media
BCC	Graphic Arts, Displays, Exhibits	Printing process: duplicating or from original design identical images from linoleum, wood cut, silk-screen, etching, or found objects
BCD	Photography/Video Level 1 – Focus on Photography Level 2 – Controlling the Image Level 3 – Mastering Photography	Fun activities help youth understand basics of photography, then apply these skills and build on them to master more sophisticated techniques.
BCE	Needlearts	Knitting, Crocheting, Traditional Embroidery, Chicken Scratch, Needlepoint, Applique, Smocking, Macrame, Crewel Embroidery, Quilting, Weaving, Trapunto, Shadow Stitching, Cross Stitch, Punch Embroidery, Candle-wicking, Net Darning, Rug Making, Latch Hook, Knotting, Braiding
<b>C</b>	<b>CONSUMER AND FAMILY SCIENCE</b>	
<b>CA</b>	<b>Child Development, Child Care, Babysitting</b> Kids on the Grow: Lev 1 Growing on My Own Gr 3-5 Lev 2 Growing with Others Gr 6-8 Lev 3 Growing in Communities Gr 9-12  Babysitting Savvy Gr 7-12*	Kids on the Grow: Lev 1 Learning how they grow and develop, how to inspect toddler’s toys and make their home hazard free. Learning about roles in life, how to handle their emotions and accept differences in others. Lev 2 Learning about self care, rules, responsibility, and safety; are introduced to babysitting; Working with others to gain awareness of common dangers in their world. Lev 3 Exploring child development careers, gaining experience as a teacher or coach, participating in community service projects and learning that children with different abilities have different needs.  *Babysitting Savvy: Addresses both child development and business management of babysitting service. Learn the do’s and don’ts of babysitting, how to make money while doing the job right.
<b>CB</b>	<b>Clothing and Textiles*</b> A Style of Your Own: Discovering Choice Gr 6-8 Managing Choice Gr 9-12 Clothing Connections Sewing Expressions Under Construction Lev 1 Fashion Forward Lev 2 Refine Design Lev 3  Let STEAM Clothing Curriculum - Set of 5 Lev 1: FUNdamentals Lev 2: Simply Sewing Lev 3: A Stitch Further Lev 4: Maker’s Guide STEAM Clothing: Beyond the Needle’s Sew	A Style of Your Own concentrates on the consumerism in clothing and textiles as well as making choices in clothing that are correct for a person’s body type, colors, textures, etc.  Sewing Expressions is a clothing & textiles construction project while at the same time teaching fabric basics, sewing machine skill building, and more traditional sewing skills. Let’s Sew is a beginner’s guide & reference book with step-by step instructions for basic skills and techniques. Recommended for use with any beginning sewing curriculum and as a companion reference for all levels.  *Reference sheet to match skill expectation by level is available.
<b>CC</b>	<b>Home Environment/Home Improvement</b> Numerous reference sheets are available on a variety of these topics.	Fabric Furnishings – i.e. table linens, curtains/draperies, insulated shade, slipcover, pillow, bedspread/coverlet, dust ruffle, etc. Accessories, Furniture, Caning, etc.

	<p>Changing Spaces Gr 3-12*  Lev 1 Design Detective  Lev 2 Designer in Me  Lev 3 Designer Studio</p>	<p>*Youth designer plans use of indoor &amp; outdoor spaces, select plantings, choose furnishings, &amp; accessorize using style &amp; color. Youth interested in interior or exterior design of personal and public areas will enjoy this series.</p>
<b>CD</b>	<p><b>Consumer Education</b>  It All Adds Up Gr 7-12  You're Accountable  My Money, Myself Gr 4-6  Financial Fitness for Young Adults  Consumer Savvy*  Lev 1 The Consumer in Me Gr 3-5  Lev 2 Consumer Wise Gr 6-8  Lev 3 Consumer Roadmap Gr 9-12  Reading Makes Cents (Afterschool Gr. 3-5)*   Entrepreneurship   My Financial Future</p>	<p>* Youth become informed and responsible consumers in today's marketplace. Lessons in saving, spending and sharing, the influence of peers and advertising, and navigating the hazards in consumerism.   *A combination of financial literacy and children's picture books makes a great curriculum to teach youth about managing money, saving money and much more.  *Youth discover the world of entrepreneurship. Learn what it takes to be an entrepreneur. Practice skills needed explore types of businesses, products and pricing, marketing, partnership, agreements and contracts. Youth create a business plan and start their own business.  From organizing finances to learning about savings, risk management &amp; consumer breadcrumbs, helps middle &amp; high school youth develop critical skills &amp; knowledge in money management</p>
<b>CE</b>	<p><b>The Laundry Project</b></p>	<p>Learn about laundry machines &amp; products, how to be environmentally friendly &amp; how to sort &amp; clean laundry items. Conduct an experiment to learn how heat affects different types of fibers too!</p>
<b>D</b>	<p><b>NATURAL RESOURCES,  ENVIRONMENTAL EDUCATION  AND EARTH SCIENCES</b></p>	<p><i>General studies of human life and its relationship to other life forms on earth and the physical, biological and chemical environments.</i></p>
<b>DA</b>	<p><b>Environmental Stewardship</b>  Nature Trail Development  Backyards &amp; Beyond:  Club Explorers Journal  Club Leader Curriculum  Community Organizational Guide &amp; Toolkit  Field Guides Made Easy  Invasive Species  Exploring Your Environment: Gr. 6-8  Ecosystem Services  Earth's Capacity (Environmental Stewardship)   Cycling Back to Nature:  Soils Alive (Rocks to Compost) Gr 4-12  Food Production &amp; Pesticides Gr K-12  Energizing Your Future with Energy,  Economics &amp; the Environment Gr K-12  Field of Genes: Making sense of Biotechnology in Agriculture Gr K-12  Transportation &amp; The Environment</p>	<p>Cultivation of a personal commitment to responsible resource management which contributes to the quality of life for present and future generations. This includes knowing about and caring for the environment, and applying this concern through responsible action for the rest of our lives.</p>
<b>DB</b>	<p><b>Earth, Water, and Air</b>  Power of Wind</p>	<p>Studies which address mostly physio-chemical aspects of the environment; the lithosphere (geology, minerals), the hydrosphere (waters), and atmosphere (weather and climate).</p>
<b>DBA</b>	<p><b>Geology</b>  Level 1- Gr. 3-5  Level 2- Gr. 4-7  Level 3- Gr. 6-10  Lasting Impressions (fossils)</p>	<p>Study sedimentary, igneous and metamorphic rocks, minerals and geologic processes through the earth's history. Youth will learn about rocks, fossils and minerals in the three level geology project by keeping records of their rock collecting.</p>

DBB	<b>Weather and Climate</b> Understanding Weather Unit 1 Building a Weather Station Unit 2 Weather Maps & Forecasting Unit 3 Climate Change Activity Guide: Gr. 7-12	Studies of local or regional atmospheric phenomena occurring over the short term (weather) as well as long-term trends which are expressed as regional climates.
DBC	<b>Soils and Conservation</b>	Studies of soils as plant growth media, construction materials and naturally occurring bodies. Soils represent the place where the earth's crust, the atmosphere, living things and water are most intimately mixed.
DBD	<b>Water</b> Pond & Stream Safari Water Wise Gr 5-6 Water Worlds age 9-12 Watershed Science for Educators There's No New Water! Gr. 9-12	Studies of the "universal solvent" which makes life possible including water supply and uses, the water cycle, water conservation and water pollution. Grounded in concept that water is a finite natural resource whose quantity and quality must be responsibly preserved, protected, used and reused.
DBE	<b>Rain to Drain: Slow the Flow</b>	<p>A hands-on storm water education curriculum. This experiment style series of activities leads youth and adults to a better understanding of the movement of storm water in natural and developed communities. It's also a great introduction to green infrastructure and storm water best management practices.</p> <p>This curriculum is designed to be used by middle-school aged youth; it is also easily adaptable to older and younger youth and also for adults.</p>
DC	<b>Energy</b> Energy Links Age 9-11 Energy Projects – Basic & Advanced Energy Action Activities Power of Wind Gr. 6-8	Exploration of the basic principles of thermodynamics and physics and how these principles apply to energy use in various settings. Power of Wind involves youth in the engineering design process as they learn about wind and its uses.
DD	Forests and Wildlife	Studies of renewable natural resources, mostly on non-cultivated and non-urban lands.
DDA	Forests of Fun Gr 9-12 Lev 1 Follow the Path Gr 3-5 Lev 2 Reach for the Canopy Gr 6-8 Lev 3 Explore the Deep Woods Gr 9-12 Trees: Dead or Alive Tree Identification Know Your Trees Gr 3-12 <b>Maple Production</b>	Studies of forested lands used for timber production, recreation, wildlife habitat and watershed.
DDC	Wildlife in Today's Landscape Wildlife Enhancement Wilde Life Science Fishing for Adventure: Take the Bait Gr 4-6 Reel in the Fun Gr 7-9 Cast into the Future Gr 10-12 Sport fishing & Aquatic Resources Birds in Your Backyard	<p>Studies of wildlife and fish species in terms of life history, geographic distribution, bio-diversity, habitat, human utility, management and aesthetic values.</p> <p>Wildlife Science curriculum: learn about wildlife and exploring their habitat; mammals, birds, fish, and herptiles &amp; the role humans play in conservation &amp; wildlife management.</p>

	Wildlife Discovery Herpetology: Reptiles & Amphibians Gr 6-12 <b>Amphibians &amp; You</b>	Discover native amphibians and their value to the ecosystem. Learn to identify & conduct field research. 10 and up. Can be adapted for younger and older
<b>DE</b>	<b>Outdoor Education/Recreation</b>	Experiences that involve being in, using, employing or interpreting the natural environment.
<b>DEA</b>	Adventure/Challenge Lev 1 Hiking Trails Gr 3-5 Lev 2 Camping Adventures Gr 6-8 Lev 3 Backpacking Expeditions Gr 9-12	Outdoor activities that challenge the human spirit and body, such as hiking, primitive camping, survival training, orienteering and ropes courses.
DF	<b>Waste Management</b> What About Waste?	Consideration of the waste stream from extraction or harvest of raw materials through enviroshopping to disposal by landfilling or incineration. Waste management includes waste reduction, composting, re-use, recycling, waste-to-energy, waste stabilization and disposal.
<b>DFA</b>	Composting Composting in the Classroom Composting: Wastes to Resources	Transformation of organic waste to a useful mulch or soil amendment.
DFB	Recycling Recycling: Mining Resources from Trash	The purchase of materials with recycled content and diversion of materials back to useful processes with the goal of reducing energy use, reducing consumption of natural resources, and decreasing waste going to landfills and incinerators.
DFC	Household Hazardous Waste	Family generated solid waste or refuse that contains materials that are ignitable, reactive or corrosive.
<b>E</b>	<b>HEALTHY LIFESTYLE EDUCATION</b> Health – It’s Your Choice: Discovering Myself Gr 3-4 Fun With Friends Gr 5-6 Teen Talk Gr 7-9 Piecing It Together Gr 10-12 STEPS to a Healthy Teen (Grades 8 – 12)	STEPS to a Healthy Teen helps youth develop skills and knowledge about physical education and nutrition through interactive learning experiences. Each activity includes a Teen Research Challenge.
<b>EB</b>	<b>Mental and Emotional Health</b> Let’s Talk About Living in a World with Violence	Related to self-understanding, self-management, stress management, and interpersonal relationships.

<p><b>EC</b></p>	<p><b>Foods and Nutrition</b>  Cooking Up Fun:      Lev 1 A Pyramid of Snacks age 9-12      Lev 2 Muffins &amp; More age 9-12      Lev 4 Yeast Breads age 9-12  Kitchen Science for Kids age 5-12  What's On Your Plate (9-18)      Level 1 The Secrets of Baking      Level 2 The Power of Protein Chemistry      Level 3 The Inner Mysteries of Fruits/Veg      Level 4 Be a Food Scientist  Fantastic Foods:      Lev 1 Six Easy Bites Gr 3-4      Lev 2 Tasty Tidbits Gr 5-6      Lev 3 You're The Chef Gr 7-9      Lev 4 Foodworks (Int'l) Gr 10-12  Food Mysteries age 11-14  Let's Bake Quick Bread  Microwave Magic:      Lev A Bag of Tricks Gr 3-4      Lev B Micro Magician Gr 5-6      Lev C Amazing Rays Gr 7-9      Lev D Presto Meals Gr 10-12  4-H Food Fundamentals age 9-11  Confections – Must complete a basic nutrition project prior to this project.  Food, Culture and Reading Gr. 4-6  What's On Your Plate?</p>	<p>Foodstuffs, their preparation and the act of being nourished by wholesome sustaining food substances.</p> <p><i>What's on Your Plate? Exploring Food Science</i> is a comprehensive curriculum set with a tasty collection of hands-on experiments-you-can-eat that help learners discover the science behind the foods they eat. Each unit contains activities for beginner through advanced learners.</p> <p>Food, Culture and Reading uses activities to help youth recognize healthful foods, taste new foods, explore similarities of foods, and develop an understanding and appreciation of different cultures.</p>
<p><b>ECC</b></p>	<p><b>Home Food Preservation</b>  Freezing  Drying  Boiling Water Canning  Pressure Canning</p>	<p><b>Maintaining, perpetuating and safeguarding foodstuffs.</b>  Set includes one each of the Freezing, Drying, Boiling Water Canning, and Pressure Canning Manuals. Each manual includes nutrition information, kitchen basics, the basics of the preservation procedure, and activities for the youth to conduct to learn the techniques.</p> <p><b>Grades 3-12</b></p>
<p><b>ECE</b></p>	<p><b>4-H Cooking 101</b></p>	<p>Among other topics, youth learn how to use MyPlate, avoid spreading germs while cooking, measure and mix ingredients, test baked goods for doneness, brown meat, and set the table for a family meal.</p> <p><b>The curriculum comes as loose-leaf paper to make it easier for youth to pull out recipes. Purchase a binder to store the manual!</b></p>
<p><b>ED</b></p>	<p><b>Physical Health</b>  Staying Healthy (Grades 3 – 12)  Keeping Fit (Grades 3 – 12)</p>	<p>Staying Healthy helps youth identify personal talent areas, explore hygiene, nutrition and physical activities, and share what they discover.</p> <p>Keeping Fit has youth design their own personal fitness plan and track it using their own fitness file.</p>
<p><b>EDA</b></p>	<p>Fitness and Sports  Sports Nutrition  Health Rocks</p>	<p>Learning about or participating in vigorous exertion of whatever kind.  Learning about the effects of drugs, alcohol and tobacco.</p>
<p><b>EE</b></p>	<p><b>Safety</b></p>	<p>Programs, activities, and projects that effect being secure or protected from hurt, injury, harm or loss.</p>
<p><b>EEA</b></p>	<p>First Aid/CPR  First-Aid in Action (Grades 3 -12)</p>	<p>Youth practice first aid skills to treat cuts, scrapes, nosebleeds and bee stings, learn to respond to someone who is choking or broken a bone, assemble a first aid kit, and interview members of the medical profession.</p>
<p><b>EED</b></p>	<p>Emergency Preparedness</p>	<p>Being ready/prepared for unforeseen circumstances which call for immediate action.</p>

EEE	Tractor and Machinery Safety Certification ATV Safety	Programs resulting in the certification of an individual to operate agricultural production equipment legally and safely.
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<b>F</b>	<b>PERSONAL DEVELOPMENT AND LEADERSHIP</b>	<i>Relating to individual influence, excellence, conduct, motives, characteristics, traits, attitudes and habits.</i>
<b>FA</b>	<b>Career Exploration and Employability</b> Build Your Future  Energizing Your Future with Energy, Economics & the Environment Gr K-12 WOW Wild Over Work Rising to the Occasion Gr K-12 Wonderwise Science Series* (For Loan Only) Gr 3-5 Sea Otter Biologist Space Geologist Parasite Sleuth Pollen Detective Rainforest Ecologist African Plant Explorer Urban Ecologist Vet Detective Genetic Counselor Getting Into A Food Mood: Communicating Food Issues Gr 3-10	Exploring potential jobs to starting own business, this curriculum helps teens develop skills & knowledge in career exploration. A variety of learning methods that reflect on their experiences. Nine engaging activities provide fun structure to help teens learn about their choices, make important connections and plan successful/meaningful careers. Grades 9-12.  *Wonderwise Kits, a Women in Science Learning Series, present inquiry-based science units that focus on one scientist and her research for five sessions of activities. Combining a video field trip with hands-on, multidisciplinary science activities, each Wonderwise Kit includes a video, CD-ROM, and activity guide. A website tells you more: <a href="http://wonderwise.unl.edu">http://wonderwise.unl.edu</a>
<b>FC</b>	<b>Economics, Business, and Marketing</b> Financial Champions: Money FUNdamentals Age 12-13 Money Moves Age 14-15 Money Math – Lessons for Life Entrepreneurship: Be The ‘E’ Gr 6-12 Radishes to Riches Get in the Act! Money Math – Lessons for Life	Study of principles underlying commerce, merchandising, and entrepreneurship

<b>FD</b>	<b>Exploring 4-H – youngest participants</b> Exploring the Treasures of 4-H Gr 2-4  Create your own Marshmallow Rocket  All about insects  All about pets  Classic Crayon & Cloverbud coloring book  The big book of Cloverbud 4-H activities	*General introductory. Provides a “treasure hunt” for youth to explore the joys of 4-H by discovering their interest, potential 4-H projects & finding 4-H where they live with the guidance of parents and other adult helpers. * new peer-reviewed activity booklets made especially for (ages 5-8)! Comes with an 8-page activity booklet and sheet of glow stickers. *learn the basics of insects & then search for insect clues & insects outside. * learn about different types of pets, how to choose a pet, & how to care for a pet. *coloring book plus eight colorful crayons covers 4-H experiences & subject areas like camp, fair, animals, fashion & computer science! *covers areas of: science/tech, communications/expressive arts, healthy lifestyle, environmental/earth science, personal development, citizenship/civic education, consumerism/family science, & plants/animals.
<b>FE</b>	<b>Hobbies and Collections</b> The Art of Collecting – Beginners age 12 & up  My Favorite Things	*Leisure interest/the individuals attention for a period of time such as enjoyable avocations (making/doing) or the accumulation of objects gathered for study, comparison or exhibition. *Learn about various types of collections, the ins & outs of the collecting process & how to best display your items.
<b>FF</b>	<b>Leadership Skills Development</b> Step Up To Leadership: My Workbook Gr 3-5 My Journal Gr 6-8 My Portfolio Gr 9-12	Development of qualities necessary to work with and through others to accomplish goals.
<b>FG</b>	<b>Leisure Education</b>	Learning to transform free time into self-discovery and personal fulfillment through the knowledge of self and available alternative activities.
<b>FJ</b>	<b>Social Recreation Skills</b>	Freely chosen activities in which the motivation is the basic social drive, the need to interrelate with people

<b>G</b>	<b>PLANTS AND ANIMALS</b>	<i>Applied biological sciences, production and pets.</i>
<b>GB</b>	<b>Animals</b>	General or specific species not on list below.
GBA	Aquaculture  Acres of Adventures 1 Acres of Adventures 2	Hydroponics and the cultivation of the natural produce of water, such as fish, crayfish, etc.  This Afterschool agriculture curriculum promotes agricultural literacy among young people during out-of-school time while developing their understanding, appreciation and application of science through a variety of hands-on agriculturally based activities. (Grades 3-5)
GBB	Beef Cattle Lev 1 Bite into Beef Lev 2 Here’s the Beef Lev 3 Leading the Charge Exploring Beef Health and Husbandry - *NEW* Market Beef Beef Breeding Beef Learning Lab Kit	Domesticated bovine developed primarily for the efficient production of red meat.  Exploring Beef activities help youth develop knowledge and skills associated with raising and showing beef cattle.

GBC	Birds and Poultry Lev 1 Scratching the Surface Lev 2 Testing Your Wings Lev 3 Flocking Together Poultry Learning Lab Kit	Domesticated birds, chickens, pigeons, waterfowl, and other warm-blooded feathered animals.
GBD	Cats Lev 1 Purr-fect Pals Lev 2 Climbing Up! Lev 3 Leaping Forward	Features breeds, cat senses, shows, tricks, signs of illness and health, cat sounds, emergency situations, feeding, special diets and traveling with a cat.
GBE	Dogs Lev 1 Wiggles & Wags Lev 2 Canine Connection Lev 3 Leading the Pack Canine Constellation: (counties-wide project) Dog Obedience Dog Agility Dog Learning Lab Kit	Dog body parts, correcting behavior, controlling fleas, grooming, how to train a dog to respond to seven basic commands; explore breed origins, safety, socializing a dog, showmanship, feeding, controlling parasites; learn how to plan and conduct a dog show, a showmanship clinic, and a skillathon as well as research dog related careers.
GBF	Dairy Cattle Lev 1 Cowabunga! Lev 2 Mooving Ahead Lev 3 Rising to the Top Dairy Learning Lab Kit	Bovine bred and developed chiefly for milk production.
GBG	Goats Dairy Goats: Lev 1 Getting Your Goat Lev 2 Stepping Out Lev 3 Showing the Way Meat Goats: Lev 1 Just Browsing Lev 2 Get Growing with Meat Goats Lev 3 Meating the Future Goat Learning Lab Kit	Milk, hair, and/or meat producing.

GBH	Horse/Pony Lev 1 Giddy Up & Go Lev 2 Head, Heart & Hooves Lev 3 Stable Relationship Lev 4 Riding the Range Lev 5 Jumping to New Heights Horses & Horsemanship Horse Science Horseless Horse Project Horse Learning Lab Kit	Breeding, care, training, for riding, pleasure or draft purposes.  Numerous reference/information sheets are available in addition to the curriculum books listed here.
GBI	Rabbits/Cavies Rabbits: Lev 1 What's Hoppening? Lev 2 Making Tracks Lev 3 All Ears Rabbit Learning Lab Kit Cavies	Cavy project includes general care, history, anatomy, selection, housing and equipment, records, nutrition, health, reproduction, show preparation, marketing, and care. Appropriate for all age and skill levels.
GBJ	Sheep	

	Lev 1 Lambs, Rams and You Lev 2 Shear Delight Lev 3 Leading the Flock Sheep Learning Lab Kit	
GBK	Small Animals/Pocket Pets/Lab Animals Lev 1 Pet Pals Lev 2 Scurrying Ahead Lev 3 Scaling the Heights	Includes all other small-domesticated mammals raised and cared for but not listed in the GB category.
GBL	Swine Lev 1 The Incredible Pig Lev 2 Putting the oink in Pig Lev 3 Going Whole Hog Exploring Swine Health & Husbandry – *NEW* Swine Learning Lab Kit	Exploring Swine activities help youth develop knowledge and skills associated with raising and showing swinw.
GBM	Lamas /Alpacas Lev 1- Gr. 3-5 Lev 2- Gr. 6-8 Lev 3- Gr. 9-12	Learn to care for lamas by learning lama care, grooming, feeding, fiber types, building trust, training and much more.
<b>GC</b>	<b>Plants</b> Herb Gardening (3 Levels in 1 Book) Hydroponics Grow with the Flow	Living vegetables, herbs, greenery or foliage, trees, vines, shrubs, etc.
GCA	Crops/Weeds	A plant product grown and harvested for profit or consumption; (weeds) plants that interfere with the growth or production of more desirable plants.

GCC	Gardens – Fruits/Vegetables See Them Sprout Gr 3-4 Let's Get Growing Gr 5-6 Take Your Pick Gr 7-9 Growing Profits Gr 10-12 Horticulture: Beginning: Budding Gardeners Intermediate: Branching Out Advanced: Digging Deeper Garden in the City Vegetable Production Handbook Vegetable Fare -Displaying Veggies at their Best	Desirable plants cultivated for their production of edible herbs, fruits, flowers or vegetables.
GCD	Ornamental Horticulture	Plants cultivated primarily for landscaping and aesthetic purposes.
GCS	The Strawberry Project	Learn ways to grow your own strawberries, how to pick berries for exhibit and a variety of experiments.

<b>H</b>	<b>SCIENCE AND TECHNOLOGY</b>	<i>Applied knowledge, expertise, and disciplines attained through study of the physical world.</i>
<b>HA</b>	<b>Science/Technology Literacy</b> In-Touch Science Series: Gr 3-5 Foods & Fitness Plants & Engineering Chemistry & Environment Fibers & Animals	Ability to understand applied knowledge, expertise and disciplines attained through study of the physical world.
<b>HB</b>	<b>Biological Sciences</b>	The discipline and knowledge base applied to life and living processes.
HBB	Aquatic Science Aquatic Maestro I Aquatic Maestro II Aquatic Maestro III	4-H Aquarium projects.
HBC	Entomology and Bees Entomology: Insectaganza of Excitement: Creepy Crawlies Gr 3-5 What's Bugging You? Gr 6-8 Dragons, Houses & Other Flies Gr 9-12 Know Your Insects Entomology: Teaming with Insects (3 Levels) Learning About Butterflies Project Butterfly WINGS Mosquito Patrol Honey Bee/Apiculture	Honey Bee Challenge focuses on a critical component--honey bees--to growing food and feeding the world. he discipline of zoology that deals with insects.
HBD	Food Science	The discipline of nutrients in solid form that nourishes, sustains or supplies mankind.
HBH	Poultry Science Incubation & Embryology	The discipline of domesticated birds kept for eggs or meat and the branch of biology dealing with poultry embryos and their development.
HBI	Veterinary Science Lev 1 From Airedales to Zebras Lev 2 All Systems Go Lev 3 On the Cutting Edge	The discipline and art of prevention, cure, or alleviation of disease and injury to animals. *While Vet Sci is taught on a counties-wide level, this series offers youth an opportunity to be introduced to the world of veterinary science. 3 levels take youth through learning about the normal animal and basic anatomy, health and disease to college prep and exploration of the veterinary career.
<b>HC</b>	<b>Technology and Engineering</b>	Applied science to achieve a practical purpose through invention, planning or manipulation.
HCA	Aerospace Lift Off Gr 3-5 Reaching New Heights Gr 6-8 Pilot in Command Gr 9-12 Rockets Away Gr 4-9	Physical science that deals with flight, the earth's atmosphere and space.

HCC	Bicycle Bicycle Adventures Lev 1 Bicycling for Fun Gr K-6 Lev 2 Wheels in Motion Gr K-6 Don't Get Stuck: Fix it DVD/Video	
HCD	Computer Technology Computer Power Unlimited Gr K-12* Newbie Know-How: For Computer Beg. Lev 1 Inside the Box Lev 2 Peer to Peer Lev 3 Teens Teaching Tech Computer Science & Programming with Scratch - Set of 4 Geospatial: Exploring Spaces, Going Places* Gr 4-12 Lev 1 Getting Out Lev 2 On the Trail Lev 3 Reaching Your Destination	The applied science related to, or concerned with programmable electronic devices that can store, retrieve, and process data. *The series provides youth new skills and challenges to increase their competence and value in the digital community regardless of their current computer skills. *GIS (Geographic Information Systems) and GPS (Global Positional Systems) explored. Accessed entirely on one CD, 3 youth levels and helper's guide offer activities that correlate with National Education Standards.
HCE	Electricity Electric Excitement Lev 1 Magic of Electricity Lev 2 Investigating Electricity Lev 3 Wired for Power Lev 4 Entering Electronics	Relating to, or operated by electricity
HCF	Electronics 4-H Robotics: Engineering Today & Tomorrow Level 1 Give Robots a Hand – Junk Drawer Robotics Level 2 Robots on the Move – Junk Drawer Robotics Level 3 Mechatronics – Junk Drawer Robotics 4-H Youth Notebook Robotics Platforms Track (DVD) Virtual Robotics Track (DVD)	Relating to, or utilizing devices constructed or working by methods of physics, or the principles of electronics or electrons, e.g. robotics.  By using the Robotics curriculum activity guides and CD, youth learn to build and program a robot to perform increasingly difficult tasks.
HCG	Engines, Tractors and Field Equipment Lev 1 Crank It Up Gr 3-5 Lev 2 Warm It Up Gr 6-8 Lev 3 Tune It Up Gr 9-12	Apparatus used for agricultural production and/or lawn and garden application.
HCH	Wood Science and Industrial Arts* Woodworking Wonders Lev 1 Measuring Up Lev 2 Making the Cut Lev 3 Nailing It Together Lev 4 Finishing Up	The discipline associated with the processing and utilization of wood products; making and using technical plans; developing dexterity and familiarity with tools, machines and processes for construction and repair. <b><i>*Insurance regulations prohibit youth under 14 years old to use power tools in NYS 4-H programs.</i></b>

<b>HD</b>	<b>Physical Sciences</b>	The natural sciences that deal primarily with non-living materials.
HAD	Astronomy It's Out of This World Gr 4-9  Science Fun with Physics Curriculum	The science of the celestial bodies and of their magnitudes, motions, and constitution.  As you try each experiment you'll see the forces of nature, energy, and the power of physics at work—or is it magic?

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*Please note that while the 4-H office maintains a basic inventory of the printed project materials listed above, not all printed project materials may be available at one time. Every attempt is made to keep at least one copy on file for review purposes. Please anticipate your needs and provide ample time for 4-H staff to obtain project materials for you*

*4-H project materials are provided to 4-H leaders and 4-H members at the listed, "at cost" price. Shipping charges may apply if the 4-H office mails materials to you. **All 4-H project material purchases require a 50% deposit at time of purchase with the remainder due in 30 days. All balances must be paid on or before August 10<sup>th</sup> of each year for Fonda Fair 4-H exhibit eligibility.***