

California 4-H Project List (updated for 2008-2009)

REVISED October 22, 2008

USDA 4-H Mission Mandate	National 4-H Category	Project Name	Description	Primary (age 5-8 years old)
Citizenship	Civic Engagement	Citizenship	Learn about your rights and responsibilities, the common core values of the American democratic system, and how you can be a leader and make a difference in your community. Focus on personal development, history and culture, government studies, and current issues. More information on California 4-H Citizenship projects is available at http://www.ca4h.org/citizenship/	
Citizenship	Civic Engagement	Domestic Exchanges	4-H members and volunteer leaders establish a two-way exchange with 4-H'ers from another state or another county within California. The groups take turns hosting one another on consecutive summers.	
Citizenship	Civic Engagement	Economics & Marketing	An advanced study in any project field. A special study (including tours) of different types of businesses, a roadside stands, or the commodity marketing program.	
Citizenship	Civic Engagement	Global Education	Foster cross-cultural awareness, cooperation and understanding about other countries. Learn to live and work effectively in a global society.	
Citizenship	Civic Engagement	International Exchanges	Expand your cross-cultural skills. Host students, travel to live with host families and learn about different countries! The California 4-H International Exchange provides opportunities to Australia, Costa Rica, Finland, and Japan. More information about California 4-H arranged International Exchanges is available at http://www.ca4h.org/exchange/	
Citizenship	Civic Engagement	Service Learning	Learn how to step-up a community service project to a service-learning project and make a greater impact on your community while learning new skills.	
Citizenship	Communications and Expressive Arts	Arts & Crafts	Learn to make creative items or projects. This includes but is not limited to, any of the following; knitting, crocheting, cake decorating, jewelry making, fly tying, macrame, decoupage, stained-glass, making, pottery, ceramics, flower arranging, and hobbies such as coin or stamp collecting. No specific 4-H publications are available; however, leaders are encouraged to take advantage of the information available through commercial and electronical sources and magazines	
Citizenship	Communications and Expressive Arts	Arts & Crafts - Candle Making	Learn how to make candles. Types of projects may include but is not limited to scented, found objects, or gel candles.	
Citizenship	Communications and Expressive Arts	Arts & Crafts - Soap Making	Learn how to make soap. May include but is not limited to cold process soaps, melt and pour soaps, and hot process soaps.	
Citizenship	Communications and Expressive Arts	Calligraphy	Learn about the history and art of calligraphy. Project may include pen or quill use.	
Citizenship	Communications and Expressive Arts	Ceramics & Clay Arts	Learn how to make items or projects out of clay.	
Citizenship	Communications and Expressive Arts	Communications	Develop oral and written communication skills. Learn about various methods used to communicate including speech and writing. Project may elect to focus on various historical or modern technologies used for communication.	
Citizenship	Communications and Expressive Arts	Cultural Arts	Learn about and/or participate in a leisure-time activities that enhance the quality of life. These activities include, but are not limited to, dance, drama, music, art, and museum work.	
Citizenship	Communications and Expressive Arts	Dance	Learn the history and various styles of dance. Leader may wish to specify type of dance that will be taught in the project.	
Citizenship	Communications and Expressive Arts	Drama & Theater Arts	Learn about everything involved with theatre! Members work together to develop a performance including music, dance, acting, stage creation, and scripts.	
Citizenship	Communications and Expressive Arts	Graphic Arts	Members will learn the art of printmaking and drawing using either historical or modern techniques.	
Citizenship	Communications and Expressive Arts	Hobbies	Hobbies are practiced for interest and enjoyment. Various 4-H Hobby projects may focus on collecting, art, making, or tinkering.	
Citizenship	Communications and Expressive Arts	Leathercraft	Learn to design, make, and decorate leather furnishings and wardrobe items.	
Citizenship	Communications and Expressive Arts	Music & Instruments	Learn to play various instruments. May include information on writing and reading music.	
Citizenship	Communications and Expressive Arts	Photography	Learn to use photographic equipment and take and/or develop photographs.	
Citizenship	Communications and Expressive Arts	Public Speaking	Members will learn how to properly prepare and give a demonstration or talk. This may include any number of props education in areas such as posters and PowerPoint. May include members participating in events such as Presentation Day. The California 4-H Presentation Manual is available at http://www.ca4h.org/leadership/spd/	
Citizenship	Communications and Expressive Arts	Scrapbooking	Learn how to make a scrapbook to commemorate events or people using photos, mementos, and basic scrapbooking tools.	
Citizenship	Communications and Expressive Arts	Sign Language	Learn about the deaf community and their way of life. Members will also learn basic to advanced sign language.	
Citizenship	Community / Volunteer Service	Community Pride & Community Service	Includes projects such as Community Service, Community Pride, and Heritage and Culture. Generally focus' on assisting a member of the club's community with tasks or financial problems. Many projects may be designed using all or part of the Community Action Process as a guideline.	
Citizenship	Leadership and Personal Development	All Star Leadership	A project in which a member is either already an All-Star or wishes to become an All-Star. Learn how an All-Star assists their county and members. More information on All Star programs may be found at http://www.ca4h.org/leadership/allstar/	Prohibited from enrolling.
Citizenship	Leadership and Personal Development	Beginning 4-H	A project for new 4-H members which provides the opportunity to "sample" different projects.	

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Citizenship	Leadership and Personal Development	Career Exploration	Learn about career opportunities through individual or group study under the direction of a leader.	
Citizenship	Leadership and Personal Development	Group-Determined	Any project which a group has determined it wishes to do.	
Citizenship	Leadership and Personal Development	Hi 4-H	A Citizenship and Community Pride project for high school 4-H members. More information on Hi 4-H is available at http://www.ca4h.org/leadership/hi4h/	Prohibited from enrolling.
Citizenship	Leadership and Personal Development	Leadership Development	Learn about leadership for an individual, group and organization. Build your own leadership skills through public speaking, project management, communication, organization, and negotiation.	
Citizenship	Leadership and Personal Development	Primary Members (Mini Member & Cloverbud)	For members under the age of nine to participate in; may include basic sampling of other projects.	
Citizenship	Leadership and Personal Development	Record Keeping	Learn about records management and the practice of identifying, classifying, archiving, preserving, and destroying records. Many projects may focus on 4-H Record Books. The California 4-H Record Book Manual is available at http://www.ca4h.org/4hresource/ir/recordbook/	
Citizenship	Leadership and Personal Development	Self-Determined	Any project which a member wishes to engage in for which there is not already a project category.	
Healthy Lifestyles	Health	Baking and Breadmaking	Learn the many methods and history of bread making. May include traditional practices or machine practices. May include commercial introduction.	
Healthy Lifestyles	Health	Cake Decorating	Members learn how to decorate a cake according to their tastes. Cakes may vary from advanced to very basic.	
Healthy Lifestyles	Health	Foods	Learn how to shop for, prepare, and serve nutritious food safely, and how to maintain good health through a good diet. Food may be whatever the leader selects, with subcategories including but not limited to, Beginning, Dairy, International, Nutritional, and Preservation.	
Healthy Lifestyles	Health	Foods - Beginning	Foods project focused on easy and beginning activities.	
Healthy Lifestyles	Health	Foods - Dairy	Foods project focused on dairy products.	
Healthy Lifestyles	Health	Foods - International	Foods project focused on International foods.	
Healthy Lifestyles	Health	Foods - Nutrition	Foods project focused on nutrition.	
Healthy Lifestyles	Health	Foods - Preservation	Foods project focused on preservation of foods.	
Healthy Lifestyles	Health	Health and Physical Fitness	This project concentrates on personal health and well-being. Learn how to stay healthy by understanding basic health concepts. Participate in community health education and learn about different health services and related public misconceptions.	
Healthy Lifestyles	Health	Sports	Participate in and/or referee any group or individual sport including but not limited to, volleyball, softball, soccer, basketball, football, skiing, sailing, roller-skating, and relays. Participate in boosting public awareness. Subcategories may include; Bowling, Football, Gold, Soccer, and Volleyball.	
Healthy Lifestyles	Health	Sports - Bowling		
Healthy Lifestyles	Health	Sports - Football		
Healthy Lifestyles	Health	Sports - Golf		
Healthy Lifestyles	Health	Sports - Soccer		
Healthy Lifestyles	Health	Sports - Volleyball		
Healthy Lifestyles	Personal Safety	CPR & First Aid	Learn about life-saving methods such as CPR and first-aid. May include certification.	
Healthy Lifestyles	Personal Safety	Emergency Preparation & Management	Learn about emergency preparation for individuals, families and communities. Projects may make evacuation maps, emergency kits, and certify youth in the Community Emergency Response Team (CERT) process.	
Healthy Lifestyles	Personal Safety	Safety	Learn to understand and practice the general concepts of personal safety, environmental safety, and public safety. May include self-defense as well as first-aid training.	
Science, Engineering and Technology	Ag in the Classroom	Ag in the Classroom	Learn about both commercial and non-commercial Agricultural practices in a classroom environment. More information about California Ag in the Classroom is available at http://www.cfaic.org/	
Science, Engineering and Technology	Animals	Alpacas	Learn about Alpacas, their care and management. May also include information on their use as a wool or pack animal.	Prohibited from
Science, Engineering and Technology	Animals	Animal Husbandry	Learn about the historical and current agricultural practice of breeding and raising livestock.	
Science, Engineering and Technology	Animals	Bees	Learn about bees and their care and required equipment. Member may manage one or more hives while learning about the handling and sale of honey and the bee industry.	
Science, Engineering and Technology	Animals	Birds	Learn about birds and their care and management as a part of Avian Science. Birds may be raised for pets, show, breeding, meat, eggs, or sale. Project may include information about commercial practices in birds. Subcategories include Emu and Ostrich, Exotic, Poultry, and Turkey.	
Science, Engineering and Technology	Animals	Birds - Emu & Ostrich	Avian Science project focused on Emus and Ostriches.	Prohibited from
Science, Engineering and Technology	Animals	Birds - Exotic	Avian Science project focused on Exotic Birds including canaries, finches, budgies, cockatiels, lovebirds, African grays, amazons, macaws, and cockatoos.	
Science, Engineering and Technology	Animals	Birds - Poultry	Avian Science project focused on poultry.	

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Science, Engineering and Technology	Animals	Birds - Turkey	Avian Science project focused on turkeys.	
Science, Engineering and Technology	Animals	Cats	Learn about the care and feeding of household cats. May include management and grooming. Cats may be raised for pets, shows, or breeding.	
Science, Engineering and Technology	Animals	Cattle	Learn about the raising, care, and management of cattle. Animals may be raised for meat, show, sale, or breeding. Subcategories include Calf Processing, Replacement Heifer, and Veal Calf.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Cattle - Beef	Learn about beef cattle and their care and management. Members may raise animals for meat or for breeding. Ownership is preferred. Opportunities are available for non-owners.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Cattle - Calf Processing	Cattle project focused on calf raising.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Cattle - Dairy	Learn about dairy cattle, their care and management. Members may raise animals for milk, breeding, or sale as a bred heifers. Ownership is preferred. Opportunities are available for non-owners.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Cattle - Replacement Heifer	Cattle project focused on replacement heifers.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Cattle - Veal Calf	Cattle project focused on veal calves.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Cavies	Learn the care, feeding, and management of cavies. Members may raise animals for pets, market, showing, or breeding.	
Science, Engineering and Technology	Animals	Dog	Learn about dogs, their care and feeding. May included obedience training of animal. Subcategories include Agility, Care and Training, and Stock	
Science, Engineering and Technology	Animals	Dog - Agility	Dog project focused on dog agility training.	
Science, Engineering and Technology	Animals	Dog - Care and Training	Dog project focused on dog care and training.	
Science, Engineering and Technology	Animals	Dog - Stock	Dog project focused on stock dogs.	
Science, Engineering and Technology	Animals	Equine - Breeding	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Equine - Draft	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Equine - Drill	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Equine - Driving	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Equine - English	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Equine - Gymkhana & Dressage	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Equine - Horse	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Equine - Judging	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.

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Science, Engineering and Technology	Animals	Equine - Miniature	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Equine - Ponies	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Equine - Trail Riding	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Equine - Western	Learn how to care for, feed, and ride a horse of pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about equines without access to one) are offered in some counties. Subcategories of this project include Breeding, Draft, Drill, Judging, Driving, English, Gymkhana & Dressage, Miniature, Trail Riding, and Western. More information on California 4-H Horse projects is available at http://www.ca4h.org/projresource/horse/	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Goats	Learn about goats and their general care, management, and various uses. Members may raise animals for pets, breeding, sale, or show. Subcategories include Pygmy, Pack, and Nigerian.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Goats Angora	Learn about angora goats and their care and management. Members may use animals for marketing, breeding, or for angora wool.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Goats Dairy	Learn about dairy goats, their care and management. Members may raise animals for market, milk, or breeding. Opportunities are available for non-owners and owners alike.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Goats Meat	Learn about meat goats and their care and management. Animals may be raised for meat, show, sale, or breeding.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Goats Nigerian	Goat project focused on Nigerian dwarf goats.	
Science, Engineering and Technology	Animals	Goats Pack	Goat project focused on pack goats.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Goats Pygmy	Goat project focused on pygmy goats.	
Science, Engineering and Technology	Animals	Guide Dogs and Service Animals	Raise a puppy for Guide Dogs for the Blind, Inc. or a similar association. Applications are required and may be obtained through the 4-H Office.	
Science, Engineering and Technology	Animals	Livestock Judging	Learn how to judge various species of livestock according to breed or market specifications. May include, but are not limited to, species such as Cow, Horse, Sheep, Goat, Swine, Turkey, Chicken, Rabbit, Cavies, and Dogs. May include instruction in carcass and egg judging.	
Science, Engineering and Technology	Animals	Llamas	Learn about llamas and their care and management. May include information on their use as pack or wool animals.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Pets and Small Animals	Learn about, care for, and train pets and small animals such as cats, hamsters, birds, and rats. May include breeding and sale.	
Science, Engineering and Technology	Animals	Rabbits	Learn the care, feeding, and management of rabbits. Members may raise animals for pets, fur, show, or breeding.	
Science, Engineering and Technology	Animals	Rabbits Market	Learn about the care, feeding, and management of market rabbits. Members may raise animals for sale, show, or breeding	
Science, Engineering and Technology	Animals	Reptiles	Learn about the care, feeding, and management of various species of reptiles. These species may include Snakes, Turtles and Tortoises, and Lizards.	
Science, Engineering and Technology	Animals	Sheep	Learn about the care and management of sheep. Members may raise animals for pets, show, wool, breeding, or sale. Ownership is preferred.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Sheep Breeding	Learn about the care and management of breeding sheep. Members may learn, but are not limited to, the genetics involved in breeding, the care and management of in-lamb ewes and ewes after lambing, and AI practices.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Sheep Market	Learn about the care and management of market sheep. Members may raise animals for market or show.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Swine	Learn about the care and management of swine. Members may raise animals for pets, show, sale, or breeding. Ownership is preferred.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Swine Breeding	Learn about the care and management of breeding swine. Members may learn, but are not limited to, the genetics involved in breeding swine, the care and management of farrowing sows and boars, and AI practices.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Swine Market	Learn about the care and management of market swine. Members may raise animals for market or show.	Prohibited from enrolling.
Science, Engineering and Technology	Animals	Therapeutic Animals	Learn about the care and training of therapeutic animals. Members may be training or assisting with a therapeutic animal during the animal's working hours.	

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Science, Engineering and Technology	Biological Sciences	Embryology	Learn about the stages in the development of an egg embryo. Members may hatch eggs and study the development at regular intervals, preserve embryos and make reports.	
Science, Engineering and Technology	Biological Sciences	Entomology	Learn to collect, identify, and possibly mount insects. Learn about insect's individual traits and habitats, and their relationship with humans in their uses and control.	
Science, Engineering and Technology	Biological Sciences	Marine Biology	Learn about marine biology including plant and animal life in the ocean. Marine science focuses on biological aspects of the ocean while oceanography focuses on the geological and meteorology aspects.	
Science, Engineering and Technology	Biological Sciences	Veterinary Science	Learn about the range of behavior and characteristics of a normal animal. Learn about diseases, their causes and prevention, and precautions to control those diseases that affect humans.	
Science, Engineering and Technology	Biological Sciences	Zoology	Learn about animals, their classification and physical traits. May include learning about habitats and animal interactions with humans.	
Science, Engineering and Technology	Consumer and Family Sciences	Child Development and Care	Learn how children grow and respond, and how to care for children and build relationships with small children. Appropriate activities for 10- and 11-year old boys and girls are included as well as activities for the early and mid teens.	
Science, Engineering and Technology	Consumer and Family Sciences	Clothing & Textiles	Members will not only learn the basics of clothing and other project construction, but also explore purchasing, selection, appearance, and care of clothing and textile.	
Science, Engineering and Technology	Consumer and Family Sciences	Consumer Education	For the member who is interested in wise purchasing for themselves and others. Members will learn to balance needs, wants, and resources by setting priorities and weighing alternative.	
Science, Engineering and Technology	Consumer and Family Sciences	Fashion Revue	Introduces members to the idea and basics of modeling a piece of clothing or accessory in front on an audience. Items need not be made by member in some cases. May include the attendance of a Fashion Revue. More information on the State 4-H Fashion Revue is available at http://www.ca4h.org/projresource/fashion/	
Science, Engineering and Technology	Consumer and Family Sciences	Fiber Arts	May include any craft which uses fiber as it's main point. May include project such as felting or weaving.	
Science, Engineering and Technology	Consumer and Family Sciences	Fiber Arts - Crochet	Learn how to crochet and make basic to advanced projects. May include instruction on pattern and material choice.	
Science, Engineering and Technology	Consumer and Family Sciences	Fiber Arts - Knitting	Learn how to knit and make basic to advanced projects. May include instruction on pattern and material choice.	
Science, Engineering and Technology	Consumer and Family Sciences	Fiber Arts - Needlecraft	Learn how to make need craft items using either kits or original designs.	
Science, Engineering and Technology	Consumer and Family Sciences	Fiber Arts - Spinning	Learn how to spin using a spinning wheel, hand wheel, or other spinning device to turn wool into a spun fiber. May include instructions on the preparation of wool and fiber for spinning.	
Science, Engineering and Technology	Consumer and Family Sciences	Flower Arranging	Learn how to tastefully arrange flowers and other objects for use as decoration.	
Science, Engineering and Technology	Consumer and Family Sciences	Home & Personal Management	Home management utilizes the same principles that are applied in business or to our personal life. All of us make decisions, establish priorities, set goals, and chart progress with records. Members will learn how to make effective use of limited resources to reach goals.	
Science, Engineering and Technology	Consumer and Family Sciences	Home Arts & Furnishings	Learn to embrace home arts, home furnishings, and refinishing furniture. Members may also learn how to best incorporate color, light, design, space, and texture in a living space to optimize comfort and appearance.	
Science, Engineering and Technology	Consumer and Family Sciences	Quilting	Members learn how to design and assemble a quilt using machine or hand methods. May include guidance in selecting fabrics and patterns.	
Science, Engineering and Technology	Consumer and Family Sciences	Table Setting	Members learn how to properly set and display a table for both formal and non-formal situations. May include a section on proper etiquette	
Science, Engineering and Technology	Environmental Education and Earth	4-H Camping (Overnight)	Members learn how to safely camp overnight in varying terrains. May include an overnight trip. More information on California 4-H Camps is available at http://groups.ucanr.org/_4Hbaseca/	
Science, Engineering and Technology	Environmental Education and Earth	Astronomy	Learn about celestial bodies and migrations. Members will discover constellations and seasonal changes. May include a short course on telescopes.	
Science, Engineering and Technology	Environmental Education and Earth	Climatology	Study the climate and other atmospheric sciences in a 4-H Climatology Project.	
Science, Engineering and Technology	Environmental Education and Earth Sciences	Environmental Stewardship	Stewardship is an ethic that embodies cooperative planning and management of environmental resources with organizations, communities and others to actively engage in the prevention of loss of habitat and facilitate its recovery in the interest of long-term sustainability.	
Science, Engineering and Technology	Environmental Education and Earth	Fishing and Fly Tying	Members learn the delicate art of tying flies for fishing. Fishing methods taught may vary from fly fishing to deep sea fishing to lake fishing.	
Science, Engineering and Technology	Environmental Education and Earth	Forestry	Forestry is the science of managing forests. Learn about planting and growing trees, the use of timber, wildlife habitat, recreation, landscapes, watershed management, erosion control and many other forest ecosystems concepts.	
Science, Engineering and Technology	Environmental Education and Earth	Oceanography	Learn about ocean currents, waves, plate tectonics and geology of the sea floor. Marine science focuses on biological aspects of the ocean while oceanography focuses on the geological and meteorology aspects.	
Science, Engineering and Technology	Environmental Education and Earth	Outdoor Adventure	Includes, but is not limited to any of the following; camping, rock climbing, canoeing, mountaineering, first aid, outdoor cookery, topographic map reading, and outdoor survival.	

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Science, Engineering and Technology	Environmental Education and Earth	Outdoor Adventure - Camping	A project specifically for the outdoor adventure of camping, members may also learn first aid and how to read a map. May include overnight trips.	
Science, Engineering and Technology	Environmental Education and Earth	Outdoor Adventure - Hiking	A project specifically for the outdoor adventure of hiking members may also learn first aid and how to read a map. May include instruction on backpacking and overnight trips.	
Science, Engineering and Technology	Environmental Education and Earth	Science Literacy	A project aimed to teach scientific concepts to youth and increase their scientific literacy.	
Science, Engineering and Technology	Environmental Education and Earth	Soil & Water Conservation	Learn to understand the importance of soil and water conservation in everyday living. Included will be a study of our renewable and non-renewable resources and how they affect our quality of life.	
Science, Engineering and Technology	Environmental Education and Earth	Wildlife	Learn about local and exotic wildlife, their habitat, and value to ecosystem and economics. Includes information on the conservation of wildlife. May include work with a relocation/rehabilitation program.	
Science, Engineering and Technology	Physical Sciences	Energy Management	Learn about limited and renewable sources of energy. Learn uses, impacts, costs, and management of both traditional and alternative energy forms.	
Science, Engineering and Technology	Physical Sciences	Geology	Learn about the study of solid and liquid matter constituting the Earth. May include learning about minerals, jewelry, and field trips to geologic formations.	
Science, Engineering and Technology	Plant Science	Field Crops and Management	Learn to grow and market any commercial type of field or row crop. May include some information on commercial methods and environmental issues.	
Science, Engineering and Technology	Plant Science	Fruits, Nuts and Berries	Learn to grow and market any fruit crop. May include information on commercial methods and environmental issues.	
Science, Engineering and Technology	Plant Science	Indoor and Mini Gardens	Learn to grow indoor plants and terrariums as well as patio plants and pot gardening of flowering or fruit-bearing plants.	
Science, Engineering and Technology	Plant Science	Junior Master Gardener	Junior Master Gardener program cultivates leadership and volunteerism by utilizing fun, hands-on horticultural projects.	
Science, Engineering and Technology	Plant Science	Ornamental Horticulture	Learn flower growing, home landscaping, and growing and caring for lawns, ground covers, shrubs and trees. This projects includes all ornamental plants grown outdoors.	
Science, Engineering and Technology	Plant Science	Sugarbeets	Learn to grow and harvest plots of beets to test agricultural practices or for use as a commercial crop or in show.	
Science, Engineering and Technology	Plant Science	Vegetable Gardens and Crops	Learn to grow vegetables and/or market crops. This includes organic gardening.	
Science, Engineering and Technology	Technology and Engineering	Aerospace & Rocketry	Learn about one of more of the categories. May include designing, building, or demonstrating flying or non-flying gliders, airplanes, or rockets.	
Science, Engineering and Technology	Technology and Engineering	ATV & Dirt Biking	Learn the care and maintenance of ATV's and dirt bikes, as well as safety practices. May include the planning and implementation of an excursion. Information on California ATV age and safety laws may be found at http://groups.ucanr.org/ehs/files/34244.pdf The National 4-H ATV Safety Curriculum is available at http://www.atv-youth.org/	Prohibited from enrolling.
Science, Engineering and Technology	Technology and Engineering	Automotive	Learn safety in the care and use of the automobile. May include maintenance and repairs, cost and responsibilities of car ownership, and driving skills.	
Science, Engineering and Technology	Technology and Engineering	Bicycles	Learn the care and maintenance of bicycles, as well as safety practices. May include the planning and implementation of a bicycle excursion.	
Science, Engineering and Technology	Technology and Engineering	Computer - Website Design	Members learn how to design a website using either code or a specific program. May include a short section on graphic design and website management.	
Science, Engineering and Technology	Technology and Engineering	Computers & Internet	Learn about computer hardware and software. Projects may focus on specific software packages, general computer maintenance, or computer hardware identification and upgrading.	
Science, Engineering and Technology	Technology and Engineering	Construction & Building	Learn about general construction and engineering principles. Projects may focus on small or large construction activities and members will learn about how to design and build.	
Science, Engineering and Technology	Technology and Engineering	Electricity & Electronics	Learn the fundamental of electricity and its application as a source of energy and power. Learn to build and maintain electronics of varying complexity.	
Science, Engineering and Technology	Technology and Engineering	Farm Machinery	Learn to maintain and safely operate tractors and farm machinery or equipment.	Prohibited from
Science, Engineering and Technology	Technology and Engineering	General Engineering	This project may be used as a catchall to include such things as drafting, home repairs, concrete work, general engineering, mechanical drawing and other industrial education, and mechanical science activities.	
Science, Engineering and Technology	Technology and Engineering	GIS/GPS	GPS is a navigational system that can accurately locate your position. GIS is a computer program for storing, retrieving, analyzing and displaying spatial data. Projects may focus on one or both or introduce members to geo-caching.	
Science, Engineering and Technology	Technology and Engineering	Metal Working	Learn to safely operate a gas or electric welder over the course of several projects.	
Science, Engineering and Technology	Technology and Engineering	Robotics	Learn about the science and technology of robots and their design, manufacture and application.	

California 4-H Project List (updated for 2008-2009)				
<i>REVISED October 22, 2008</i>				
USDA 4-H Mission Mandate	National 4-H Category	Project Name	Description	Primary (age 5-8 years old)
Science, Engineering and Technology	Technology and Engineering	Shooting Sports - Archery	Members will learn how to safely operate and maintain archery equipment, as well as learn how to shoot. This project may include bow-hunting or target practice, and often includes competitions. 4-H Archery projects may only be led by a 4-H-certified adult 4-H volunteer or staff. For more information please visit http://www.ca4h.org/projresource/shootingsports/	Prohibited from enrolling.
Science, Engineering and Technology	Technology and Engineering	Shooting Sports - Hunting	Learn to safely operate and maintain guns and equipment. This project may include target practice, hunting, or competitions. Subcategories include Hunting, Muzzle Loading, Pistol, Rifle, and Shotgun. 4-H Shooting Sports projects may only be led by a 4-H-certified adult 4-H volunteer or staff. For more information please visit http://www.ca4h.org/projresource/shootingsports/	Prohibited from enrolling.
Science, Engineering and Technology	Technology and Engineering	Shooting Sports - Muzzle Loading	Learn to safely operate and maintain guns and equipment. This project may include target practice, hunting, or competitions. Subcategories include Hunting, Muzzle Loading, Pistol, Rifle, and Shotgun. 4-H Shooting Sports projects may only be led by a 4-H-certified adult 4-H volunteer or staff. For more information please visit http://www.ca4h.org/projresource/shootingsports/	Prohibited from enrolling.
Science, Engineering and Technology	Technology and Engineering	Shooting Sports - Pistol	Learn to safely operate and maintain guns and equipment. This project may include target practice, hunting, or competitions. Subcategories include Hunting, Muzzle Loading, Pistol, Rifle, and Shotgun. 4-H Shooting Sports projects may only be led by a 4-H-certified adult 4-H volunteer or staff. For more information please visit http://www.ca4h.org/projresource/shootingsports/	Prohibited from enrolling.
Science, Engineering and Technology	Technology and Engineering	Shooting Sports - Rifle	Learn to safely operate and maintain guns and equipment. This project may include target practice, hunting, or competitions. Subcategories include Hunting, Muzzle Loading, Pistol, Rifle, and Shotgun. 4-H Shooting Sports projects may only be led by a 4-H-certified adult 4-H volunteer or staff. For more information please visit http://www.ca4h.org/projresource/shootingsports/	Prohibited from enrolling.
Science, Engineering and Technology	Technology and Engineering	Shooting Sports - Shotgun	Learn to safely operate and maintain guns and equipment. This project may include target practice, hunting, or competitions. Subcategories include Hunting, Muzzle Loading, Pistol, Rifle, and Shotgun. 4-H Shooting Sports projects may only be led by a 4-H-certified adult 4-H volunteer or staff. For more information please visit http://www.ca4h.org/projresource/shootingsports/	Prohibited from enrolling.
Science, Engineering and Technology	Technology and Engineering	Small Engines	Learn about the care and use of a 2-cycle and 4-cycle gasoline and diesel engines in all home, farm or recreational situations - from lawn and garden equipment, to boats and motorcycles.	
Science, Engineering	Technology and	Video Production	Learn about the science of videotaping, editing and distributing a finished product.	
Science, Engineering	Technology and	Woodworking	Learn to design, build and finish a wooden item. Learn the safe use and care of woodworking tools and equipment.	
Note: Projects in 4HOnline may only be added at the state level. To add a new project, please contact the State 4-H Office.				
Project Descriptions compiled by Emily Lane & Steven Worker, October 9, 2008. Replaces 4H1080 (1993).				