

Project Descriptions for 4-H

Animal Science

2 - A	Angora Goats	Learn about Angora goats and their care and management. Members may raise animals for marketing, breeding, or for Angora wool. Ownership is preferable, but opportunities are available for non-owners.
2-B	Dairy Goats	Learn about dairy goats, their care and management. Members may raise animals for market, milk or breeding. Ownership is preferable. Opportunities are available for non-owners.
2-C	Pygmy Goats	Learn about pygmy goats, their care, feeding, and management. Members may raise animals for pets, for breeding, or for selling. Ownership is preferable.
2-D	Beef Cattle	Learn about beef cattle and their care and management. Members may raise animals for meat or for breeding. Ownership is preferable. Opportunities are available for non-owners.
2-E	Dairy Cattle	Learn about dairy cattle, their care and management. Members may raise animals for milk, breeding or sale as bred heifers. Ownership is preferable. Opportunities are available for non-owners.
2-F	Service Animals	Raise a puppy for Guide Dogs for the Blind, Inc. or Canine Companions. Applications are required and may be obtained through the 4-H Office.
2-G	Dog Care and Training	Learn about dogs, their care and feeding. Give obedience training to one or more dogs.
2-H	Entomology	Learn to collect, mount and identify insects. Learn about harmful and beneficial insects and their habitats, use and control.
2-I	Beekeeping	Learn about bees and the care and equipment. Manage one or more hives of bees. Ownership is preferable. Learn about the handling and sale of honey and about the bee industry.
2-J	Horses and Ponies	Learn how to care for, feed and ride a horse or pony. The animal may be either owned or leased. Handicapped riding and the "horseless project" (learning about horses and ponies without access to one) are offered in some counties.
2-K	Pets and Other Small Animals	Learn about, care for, and train pets and small animals such as cats, hamsters, birds, and white rats. May include breeding and selling.
2-L	Llama	Acquire an understanding of the llama and its various uses by owning and/or caring for a llama. May include breeding and training.

Cooperative Extension **University of California**

Division of Agriculture and Natural Resources

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2-M	Rabbits	Learn the care, feeding, and management of rabbits. Members may raise animals for pets, market, fur, showing or breeding. Ownership is preferable.
2-N	Cavies	Learn the care, feeding, and management of cavies. Members may raise the animals for pets, for market, showing or breeding. Ownership is preferable.
2-O	Sheep	Learn about the care and management of sheep. Members may raise animals for market, breeding or wool. Ownership is preferable. Opportunities are available for non-owners.
2-P	Swine	Learn about the care and management of swine. Members may raise animals for market to breeding. Ownership is preferable. Opportunities are available for non-owners.
2-Q	Veterinary Science	Learn the range of behavior and characteristics of a normal animal. Learn about diseases, their causes and prevention, and precautions to control those diseases that can infect people.
2-R	Poultry & Game Birds	Learn about poultry and game birds as a part of Avian Science. Learn about their care and management. Birds may be raised for pets, egg production, meat for home use or market, or for breeding or showing. Project may include learning about the scientific aspects of poultry. Ownership of birds is preferable, but there are opportunities for non-ownership.
2-S	Exotic Birds	Learn about the care and management of exotic birds as a part of Avian Science. Members may raise birds as pets, may show them, or may breed and market them. Ownership is preferable.
2-T	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. This can be done individually or as a group.
2-V	Livestock Judging	Learn to evaluate the factors in selecting an animal with the most of the best. Demonstrate critical thinking ability by learning to make accurate decisions and defend those decisions with logical reasoning.

Engineering

3-A	Aerospace and Rocketry	Learn about one or more of the categories. May include designing, building and demonstrating flying or non-flying gliders, airplanes or rockets.
3-B	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.
3-C	Bicycles	Learn the care and maintenance of bicycles and bicycle safety. May include planning or conducting a bicycle excursion.
3-D	Electricity	Learn the fundamentals of electricity and its application as a source of energy and power. May include electronics.
3-E	G e n e r a l Engineering	This project is a catchall which includes such things as drafting, home repairs, concrete work, gas and electric welding, mechanical drawing and other industrial education, general engineering and mechanical science activities.

3-H	Safety	Learn to understand and practice the general concepts of personal safety, environmental safety, and public safety. All aspects of safety are explored.
3-I	Small Engines	Learn about the care and use of 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.
3-J	Farm Machinery	Learn to maintain and safely operate tractors and farm machinery or equipment.
3-K	Woodworking	Learn to design, build and finish a wooden item. Learn the use and care of woodworking tools and equipment.

Family and Consumer Sciences

4-A	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.
4-B	Clothing & Textiles	Members will not only learn the basics of clothing construction, but will explore purchasing selection, appearance, science, care, safety and energy conservation, and may take part in a fashion show.
4-C	Consumer Education	For 4-H'ers who have had experience in , and are especially interested in, wise purchasing for themselves or a home. Members will learn how to recognize needs, wants, and resources; to set priorities, to weigh alternatives, and to make informed choices.
4-E	Foods-Nutrition	Learn how to shop for, prepare and serve nutritious food safely, and how to maintain good health through good diet.
4-F	Food Preservation	Learn to can fruits and vegetables, make jams, jellies, pickles and relishes, dry jerky and fruit leather, and freeze both fresh and prepared foods. Even a 9- or 10-year old will find interesting things to do.
4-H	Home Arts and Furnishings	This project embraces home arts, home furnishings and refinishing furniture. Color, design, light, space and texture influence how we feel about where we live. Members will learn how to use these effectively to make living space more comfortable and attractive.
4-I	Management, Home and Personal	Home management utilizes the same principles that are applied in business or to our personal life. All of us make decision, establish priorities, set goals and chart our progress with adequate records. Members will learn how to make effective use of limited resources to reach goals.
4-K	Parenting and Childhood Education (PACE)	Learn the responsibilities of being a parent. Understand the growth and development of children. Develop decision-making techniques and self-esteem.
4-L	Fashion Revue	Acquire knowledge and skills in planning, presenting and participating in fashion shows.

Leisure Education/Health Science

5-A	Camping and Outdoor Adventure	Includes, but is not limited to, any of the following: Camping, backpacking, canoeing, fishing, hiking, mountaineering, first aid, rock climbing and rappelling, outdoor cookery, topographic map reading, and outdoor survival.
5-B	Creative Arts and Crafts	Learn to make creative items at your leisure. This includes, but is not limited to, any of the following: knitting, crocheting, cake decorating, jewelry making, fly tying, macrame, de'coupage, stained-glass making, pottery, ceramics, flower arranging, and hobbies such as coin or stamp collecting. No 4-H publications are available; however, there is a great deal of information available through commercial sources and magazines.
5-C	Health & Physical Fitness	The focus of this project is on personal health and well-being. Learn how to stay healthy by understanding basic health concepts. Participate in community health education and learn about rural health services extension and related public policy concepts.
5-D	Individual and Group Sports	Participate in and /or referee any group sport including, but not limited to: volleyball, softball, football, basketball, New Games, or relays. Learn about and participate in an individual sport including, but not limited to: roller-skating, ice-skating, skateboarding, sailing, skiing, recreational snowmobile riding and recreational motorcycle riding.
5-E	Leathercraft	Learn to design, make and decorate leather furnishings and wardrobe items.
5-G	Photography	Learn to use photographic equipment and take/or develop photographs.
5-H	Cultural Arts and Leisure Education	Learn about and/or participate in leisure-time activities that enhance the quality of life. These activities include, but are not limit to, dance, drama, music, art, and museum work.
5-S	Shooting Sports	Acquire knowledge of firearms, their operation, care and maintenance. Understanding hunting rules and regulations and practice them safely.

Plant Science

6-A	Field Crops & Management	Learn to grow and market any commercial type of field or row crop.
6-C	F o r e s t r y / Christmas Trees	Complete a forestry unit or learn to plant and care for Christmas trees.
6-D	Fruits, Nuts and Berries	Learn to grow and market any fruit crop.
6-F	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.
6-G	O r n a m e n t a l Horticulture	Learn flower growing, home landscaping, and growing and caring for lawns, ground covers, shrubs and trees. This project includes all ornamental plants grown outdoors.

6-H	Other Plant Science	Learn about weeds, weed control, soil science and other plant science categories not covered in other projects.
6-I	Sugar Beets	Learn to grow and harvest plots of beets to test cultural practices or as a commercial crop.
6-K	Vegetable Gardens and Crops	Learn to grow vegetables and/or market vegetable crops. This includes organic gardening.

Resource Science

7-A	Climatology	Learn about climate and its effect on people and the environment. Learn to gather weather data.
7-B	Energy Management	Learn about limited and renewable sources of energy. Learn their uses and costs and how they are best managed.
7-C	Marine Biology	Learn about plant and animal life in the ocean, and about people's relationship to this resource.
7-D	Oceanography	Learn about the physical and chemical properties of the oceans.
7-E	Other Resource Science	Other Resource Sciences, such as geology (including rocks and minerals).
7-F	Soil and 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 living.
7-G	Wildlife	Learn about wildlife, its habitat and value to the ecosystem and economics. Includes the conservation of wildlife.

Social Science

8-A	Beginning 4-H	A project for new 4-H members which provides the opportunity to "sample" different projects.
8-B	Career Exploration	Learn about career opportunities through individual or group study under the direction of a leader, or study careers as an advanced project unit.
8-C	Citizenship	A project geared to individual work rather than group work, studying leadership and service, history, culture, government, current issues, the citizen's role, natural resources and human ecosystems, and personal development and responsibilities.
8-D	Community Pride	Includes projects which fit under the Community Pride heading including Exploring Our Community and Heritage and Culture . Other projects may be designed using all or part of the Community Action Process as a guideline.
8-E	Communications	Learn to develop better communication skills through a variety of methods including public speaking.

8-G	Economics and Marketing	An advanced study in any project field. A special study (including tours) of different types of businesses, a roadside stand, or and commodity marketing program.
8-H	Graphic Arts	Graphic arts include, but are not limited to: calligraphy, map making, drawing, making posters, and painting.
8-I	Exchanges, Domestic and International	Learn about the people and culture of another country. If you are going on an International Exchange, a project about the country you will be visiting will help prepare you.
8-J	Leadership Development	Learn leadership development through a planned program approved by a 4-H Leader. This includes assisting adult leaders, or operating independently, to teach projects or handle aspects of group administration within the club, in many clubs, or countrywide. Includes any combination that fills the needs of the program and develops the leadership abilities of the member. Junior Leaders work directly under an adult leader and are in grades 7 through 9. Teen Leaders, who are in the 10 th grade and above, function with less direct supervision but with the guidance of an adult.
8-K	Computers	This project provides members with the opportunity to develop skills and knowledge in three general areas. Recognizing that many will be interested only as an intelligent user , skills and knowledge in support of this will be developed. Others will be interested as programmers and opportunities for skill development in providing the computer with instructions for performing specific tasks will be offered. Some will be interested more in the design, operation, and repair of computer equipment, therefore, opportunities as technicians in these areas will also be provided.
8-L	Self-Determined	4-H members with special interests who are not participating in another project may design a project of their own. They must decide what they want to learn about and how they are going to gather the necessary information. A 4-H Leader or staff member must provide guidance for the project.
8-M	Group Determined	A group of several 4-H members with a special interest that is not included in any other project may design a project of their own. They must ask an adult volunteer with knowledge and skill in their particular area of interest to help them design the project and guide them through its duration..