

NEW YORK STATE 4-H CURRICULUM WITH DESCRIPTIONS

<i>CURRICULUM CATEGORY</i>	<i>DEFINITION</i>
CITIZENSHIP AND CIVIC EDUCATION	
Citizenship (local, state, national)	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>
Cultural Education (Heritage, Diversity/Pluralism, Exchanges)	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).
Global Education	Global Education including worldwide programming, international exchange programs for youth enrolled in 4-H.
Intergenerational Programming	Educational efforts to link youth to another generation in a common cause.
Understanding Physical and Mental Limitations	Appreciation and acceptance of disabilities, handicaps.
Volunteerism	Learning about the importance and nature of services done of one's own free will for the benefit of others.
Service Learning	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 afterward.</i>
Community Service	<i>YCA definition: Adults decide upon the activity and youth provide the person power.</i>
COMMUNICATIVE AND EXPRESSIVE ARTS	
Communication Arts	Interchange of thought or information as a verbal or written message.
Speaking/Radio/TV	Demonstrations, public speaking, illustrated talks, preparing programs for radio and/or TV.
Writing/Print	Journalism, written communication, creative writing, poetry.
Performing Arts	Communicating through action displaying special skills such as a public exhibition.
Clowning/Mime	Entertaining through pantomime and/or role playing acts.
Dance/Movement	Rhythmic and harmonized body movement, spontaneous or controlled.
Drama/Theater	Performance and appreciation of acting.
Music/Sound	Vocal and instrumental performance, appreciation and theory.
Visual Arts	Give form and meaning through creative processes involving line, color, form, pattern and texture in two and three dimensions.
Arts and Crafts	Knowledge or skill requiring some degree of manual dexterity in production of an aesthetic object.
Drawing, Painting, Sculpting	

Graphic Arts, Displays, Exhibits	
Photography/Video	
CONSUMER AND FAMILY SCIENCE	
Child Development, Child Care, Babysitting	
Clothing and Textiles	
Consumer Education	
Home Environment/Home Improvement	
Parenting and Family Life Education	
NATURAL RESOURCES, ENVIRONMENTAL EDUCATION AND EARTH SCIENCES	<i>General studies of human life and its relationship to other life forms on earth and the physical, biological and chemical environments.</i>
Environmental Stewardship	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.
Earth, Water, and Air	Studies which address mostly physio-chemical aspects of the environment; the lithosphere (geology, minerals), the hydrosphere (waters), and atmosphere (weather and climate).
Geology and Minerals	Studies of sedimentary, igneous and metamorphic rocks, minerals and geologic processes through the earth's history.
Weather and Climate	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.
Soils and Conservation	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.
Water	Studies of the "universal solvent" which makes life possible including water supply and uses, the water cycle, water conservation and water pollution.
Energy	Exploration of the basic principles of thermodynamics and physics and how these principles apply to energy use in various settings.
Forests and Wildlife	Studies of renewable natural resources, mostly on non-cultivated and non-urban lands.
Forestry	Studies of forested lands used for timber production, recreation, wildlife habitat and watershed.
Range Science	Studies of wild lands for grazing of domestic livestock, wildlife habitat, timber, watershed and recreation. Rangelands are generally too rocky, steep or arid for cultivation.
Wildlife and Fisheries	Studies of wildlife and fish species in terms of life history, geographic distribution, bio-diversity, habitat, human utility, management and aesthetic values.

Outdoor Education/Recreation	Experiences that involve being in, using, employing or interpreting the natural environment.
Adventure/Challenge	Outdoor activities that challenge the human spirit and body, such as hiking, primitive camping, survival training, orienteering and ropes courses.
Shooting Sports	Use of firearms and archery equipment to facilitate personal goal setting, sportsmanship, confidence and safety. Shooting sports is perceived as a starting point for other environmental education areas.
Waste Management	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.
Composting	Transformation of organic waste to a useful mulch or soil amendment.
Recycling	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.
Household Hazardous Waste	Family generated solid waste or refuse that contains materials that are ignitable, corrosive, reactive or corrosive.
HEALTHY LIFESTYLE EDUCATION	
Chemical Health	The effects of chemical substances on one's physical and mental well being.
Mental and Emotional Health	Related to self-understanding, self-management, stress management, and interpersonal relationships.
Foods and Nutrition	Foodstuffs, their preparation and the act of being nourished by wholesome sustaining food substances.
EFNEP	Expanded Foods and Nutrition Education Program for youths enrolled in 4-H.
Food Safety	Related to protection and immunity of foodstuffs and diet.
Food Preservation	Maintaining, perpetuating and safeguarding foodstuffs.
Physical Health	Related to the body's well being and wholeness.
Fitness and Sports	Learning about or participating in vigorous exertion of whatever kind.
Growth, Development, and Disease	Human development across the lifespan and the maintenance of well being.
Home Nursing, First Aid/CPR	Programs focused on management and care of the ill at home, emergency care and preparation.
Sexual Health	Understanding and learning about human sexuality.
Safety	Programs, activities, and projects that effect being secure or protected from hurt, injury, harm or loss.
ATV Safety	All terrain vehicle safety.
Automotive Safety	Includes seatbelts, etc.
Bicycle Safety	
Communities for Child Safety	An interacting population of individuals in a common locale linked by child safety.
Emergency Preparedness	Being ready/prepared for unforeseen circumstances which call for immediate action.
Tractor and Machinery Safety Certification	Programs resulting in the certification of an individual to operate agricultural production equipment legally and safely.
PERSONAL DEVELOPMENT AND LEADERSHIP	<i>Relating to individual influence, excellence, conduct, motives, characteristics, traits, attitudes and habits.</i>
Career Exploration and Employability	Learning about alternatives in jobs, permanent callings and professions; the expectations and rewards of each, and workforce preparedness.

Critical Thinking Skills	Learning to exercise careful judgment and evaluation.
Economics, Business, and Marketing	Study of principles underlying commerce, merchandising, and entrepreneurship.
Exploring 4-H – youngest participants	General introductory for youngest participants.
Hobbies and Collections	Leisure interest which intensely absorb the individual's attention for over a long period of time, such as enjoyable avocations (making or doing) or the accumulation of objects gathered for study, comparison or exhibition.
Leadership Skills Development	Development of qualities necessary to work with and through others to accomplish goals.
Leisure Education	Learning to transform free time into self-discovery and personal fulfillment through the knowledge of self and available alternative activities.
Personal Development	Expanding knowledge of self, and expanding capabilities.
Reading Literacy	Encourages expanded ability to understand printed or written information.
Social Recreation Skills	Freely chosen activities in which the motivation is the basic social drive, the need to interrelate with people
Values Clarification	A process for examining and developing one's own attitudes and values
PLANTS AND ANIMALS	<i>Applied biological sciences, production and pets.</i>
Ag in the Classroom	In-school exploration of agriculture.
Animals	General or specific species not on list below.
Aquaculture	Hydroponics and the cultivation of the natural produce of water, such as fish, crayfish, etc.
Beef Cattle	Domesticated bovine developed primarily for the efficient production of red meat.
Birds and Poultry	Domesticated birds, chickens, pigeons, waterfowl, and other warm-blooded feathered animals.
Cats	
Dogs	
Dairy Cattle	Bovine bred and developed chiefly for milk production.
Goats	Milk, hair, and/or meat producing.
Horse/Pony	Breeding, care, training, for riding, pleasure or draft purposes.
Rabbits/Cavies	
Sheep	
Small Animals/Pocket Pets/Lab Animals	Includes all other small-domesticated mammals raised and cared for but not listed in the GB category.
Swine	
Plants	Living vegetables, herbs, greenery or foliage, trees, vines, shrubs, etc.
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.
Flower Gardening/House Plants	Desirable plants cultivated for their appearance and/or ornamentation either outdoors, indoors, in or out of containers, either as a hobby or as a business.
Gardens – Fruits/Vegetables	Desirable plants cultivated for their production of edible herbs, fruits, flowers or vegetables.
Ornamental Horticulture	Plants cultivated primarily for landscaping and aesthetic purposes.
SCIENCE AND TECHNOLOGY	<i>Applied knowledge, expertise, and disciplines attained through study of the physical world.</i>
Science/Technology Literacy	Ability to understand applied knowledge, expertise and disciplines attained through study of the physical world.
Series	Specific 4-H program originating in California.
Animal Science	The discipline of Agriculture concerned with production and care of domestic animals.

Aquatic Science	4-H Aquarium projects.
Entomology and Bees	The discipline of zoology that deals with insects.
Food Science	The discipline of nutrients in solid form that nourishes, sustains or supplies mankind.
Marine Science	The discipline relating to sea life and its management.
Meat Science	The discipline of animal tissue used for food from the flesh of domesticated animals.
Plant Science	The discipline of the Plantae kingdom.
Poultry Science and Embryology	The discipline of domesticated birds kept for eggs or meat and the branch of biology dealing with poultry embryos and their development.
Veterinary Science	The discipline and art of prevention, cure, or alleviation of disease and injury to animals.
Technology and Engineering	Applied science to achieve a practical purpose through invention, planning or manipulation.
Aerospace	Physical science that deals with flight, the earth's atmosphere and space.
Automotive	Four-wheeled vehicles designed for passenger transportation.
Bicycle	
Computer Technology	The applied science related to, or concerned with programmable electronic devices that can store, retrieve, and process data.
Electric	Relating to, or operated by electricity
Electronics	Relating to, or utilizing devices constructed or working by methods of physics, or the principles of electronics or electrons, e.g. robotics.
Engines, Tractors and Field Equipment	Apparatus used for agricultural production and/or lawn and garden application.
Wood Science and Industrial Arts	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.
Physical Sciences	The natural sciences that deal primarily with non-living materials.
Astronomy	The science of the celestial bodies and of their magnitudes, motions, and constitution.
Mathematics	The science of numbers and their operations, interrelation combinations, generalizations and abstractions and of space configurations and their structure and measurements.
Physics	The science that deals with matter and energy and their interactions in the field of mechanics, acoustics, optics, heat, electricity, magnetism, radiation, atomic structure and nuclear phenomena.