SpaceTech
Build model rockets, rovers, and explore space. Navigate your virtual world with GPS antennas and make decisions using GIS. Learn about computers and how to repair them and network devices. Explore the internet and offer your spare time to explore the field of science and technology.

Rocketry/Aerospace
Rocketry is a model rocket works; study equipment and procedures for a safe launch; learn the Model Rocket Safety Code; build and launch your own model rocket.

Astronomy
Study the history of telescopes, learn about the planets and their moons, the Sun, and stars; use a telescope to see a planet or other object; explore the stars and galaxies; and design and test your own telescope.

Learning by Doing: Participate in Western Heritage.

Visual Arts
Encourage your creative skills in learning how to draw, paint, and work with different media. Explore art techniques, study art history and culture, or challenge yourself to discover new artists, materials, and processes. Get the most out of your art materials by exploring different techniques and mediums.

Learning by Doing: Participate in Art.

Sheep
The sheep project can be a great way to learn about the sheep industry and make herd management decisions. You may be involved in either market or breeding projects. Through your years in the sheep projects you will learn about sheep diseases; study nutrition requirements for various breeds of sheep and their uses; manage and train sheep for show; learn safety procedures and management practices for maintaining a flock; identify symptoms, causes, and treatments of common diseases; study nutritional requirements for various breeds of sheep; study production and genetics of sheep; study technology's impact on sheep production; and explore career opportunities in the sheep industry.

Market Lamb
Select, raise, and show a market lamb. The ownership of the animal market ewes should not be returned to a breeding flock.

Breeding Sheep
Select, raise, and show a breeding ewe. You may learn about sheep diseases; study nutrition requirements for various breeds of sheep; manage and train sheep for show; learn safety procedures and management practices for maintaining a flock; identify symptoms, causes, and treatments of common diseases; study nutritional requirements for various breeds of sheep; study production and genetics of sheep; study technology's impact on sheep production; and explore career opportunities in the sheep industry.

Breeding Beef
Select, raise, and show a breeding heifer. You may learn about beef cattle for market and/or breeding; judge beef cattle for market and/or breeding; how to produce high quality beef; and how to use data and technology in an efficient beef cattle operation.

Buying Beef
Buy Beef
Participate in the Instructors Junior Apprentice Learning by Doing: Western Heritage.

Clothing and Textiles
The Clothing and Textiles projects will introduce you to the world of clothing, fashion, and accessories. Learn to create and sew your own items in Clothing Construction or develop your sense of style in Buymanship. These projects can build your confidence in managing your personal wardrobe or launch a career in fashion.

Clothing Construction
The clothing construction project will teach you the basics such as sewing a shirt or putting a zipper in a pair of pants. Learn to select appropriate fabrics, use patterns, sew quality seams, use sewing machines more proficiently, and much more. Learn to work with different and other clothing materials. Clothing and Textiles materials can be ordered through your county or district extension office or online. Have a great time with your 4-H projects.

KANSAS 4-H PROJECT SELECTION GUIDE
This guide provides a brief description of each of the official state 4-H projects. Support for this project can vary depending on your local program and the volunteers available to help. Exploring your interests through 4-H projects and Skillbuilds and skills can help you discover what you like to do. The projects you enjoy may offer you the chance to learn how to take the design of your hobby and make it into a career.

Buying Beef
Buy Beef
Participate in Western Heritage.

Kane County 4-H Project Selection Guide
4-H is famous for helping kids improve their communication skills. Being a better speaker, writer, or record keeper will help you through your 4-H communications projects. Learn to help you learn to interpret verbal and nonverbal communication, develop effective speak, make a solid presentation, and understand the four points: definition, a defend a point, design a presentation, and much more.

Learning by Doing: Participate in Fashion Revue to model clothing construction or Buymanship projects.

Energy Management
Energy Management includes the Electric/Electronics, Solar Panels, and Renewable Energy projects. These projects will help you understand how to power the world today and think about how to meet future energy needs.

Electronic/Electrics
Learn important general electrical concepts as you experiment with lighting switches and circuits, test voltages and even build motors. Study energy use, magnetism, electronics and transistors.

Dog Care and Training
Whether you have a dog or hope to get one, this project will help you learn more about dogs, from basic care and grooming to advanced training commands. Learn about different breeds and choose the best breeds for your family. Explore dog behavior, basic obedience, and more.

Learning by Doing: Participate in county and state dairy goat shows.

Kane County 4-H Project Selection Guide
This guide provides a brief description of each of the official state 4-H projects. Support for this project can vary depending on your local program and the volunteers available to help. Exploring your interests through 4-H projects and Skillbuilds and skills can help you discover what you like to do. The projects you enjoy may offer you the chance to learn how to take the design of your hobby and make it into a career.
As you older you can determine your family's personal cap; measure electric usage; and experiment in careers in electronics and engineering.

Small Engines

4-H small engines work as well as how to service them and keep them running safely. Start by learning the parts and cycles of the engine. A properly maintained engine runs more efficiently. Older 4-H members will learn to trouble-shoot, repair, and rebuild engines; understand rules and regulations for small engines; and explore starting a small engine business or career.

Power of the Wind

Discover the power of the wind. Learn how wind can be used for sailing, lifting, pumping water, generating electricity, and even creating entertainment. Design and build a wind powered boat; design a wind turbine; design and build a wind powered fan; and more. The power of the wind can even withstand 4-H projects and explain why the wind blows and discover the wind in art and literature.

Entomology

Have you chased butterflies or caught a ladybug and wondered what kind it was? Do you get excited about insects and bugs is fun? Then the Entomology project is right for you. You’ll learn the body parts of an insect, insect anatomy, the life cycle of insects, and much more. It’s a great way to explore 4-H projects for you. You’ll learn about different types of recreation; identify your interests; and discover what you believe and explain why. You’ll also learn about the value of employment.

Recreation

You can also learn the heritage of many foods, how to cook the basics and then advance to gourmet and international meals. Develop your baking skills. Learn about food preservation. You can also learn the heritage of many foods and how to cook the basics and then advance to gourmet and international meals. Develop your baking skills. Learn about food preservation.

Meat Goat

Learn how to select, raise, and care for a meat goat. Learn about taxonomic classification. Learn the symptoms and treatment of diseases. Identify hazards for pets around your home, and learn about your pet’s feeding and care. Identify hazards for pets around your home, and learn about your pet’s feeding and care.

Home Environment

Interior design is all about making a house into a home. This project will help you with this goal by experimenting with colors, textures, light, and organization. Learn to create the perfect feeling. The Home Environment project will help you explore an interior design career.

Leadership

Plan a room make-over, visit a design center, and interview an interior designer. Learn about different types of recreation; identify your interests; and discover what you believe and explain why. You’ll also learn about the value of employment.

Ethnic Arts

Create latch hook and braided rugs. Express yourself by creating and presenting a personal project. You will learn to express yourself in an interior design career.

Crops Identification Contest at the Kansas State Fair.

The Home Environment project will help you explore an interior design career.

The self-determined project is just that—you choose what you do or study. Is there something you wish to learn or improve? The self-determined project may be related to food; learn about biotechnology and poultry careers.

Leadership

Participate in the Poultry Judging Contest at the Kansas State Fair.

Poultry

This project is designed to help you learn about chickens and other poultry. You will learn about different types of birds; identify different breeds of chickens; and learn how to care for and handle your birds. Learn how eggs are formed; learn how to select and judge chickens; make an egg candler; learn about pecking orders; lead younger members in egg experiments; learn about different breeds of chickens for food; and learn about biotechnology and poultry careers.

Leadership

Participate in the Poultry Judging Contest at the Kansas State Fair.

Reading

Does good book enjoy this project? This book encourages you to harness your love of reading to new topics, or entertain yourself. As De Seuse wrote, “The more that you read, the more things you see. The more that you learn, the more places you’ll go.”

Learning by Doing

Take a 4-H Rabbit judging team: start with a doe and create a rabbit project by selling rabbits. Start by learning the parts of a rabbit. Identify different breeds of rabbits; identify the parts of a rabbit; learn good feeding and watering practices; learn about different types of rabbits; and learn how to care for newborn rabbits (kits). It is best to enroll in the 4-H project for your first 4-H year, and then you can develop a rabbit project over the next several years.

Plant Science

Plant Science projects focus on raising a garden, growing flowers, forestry, and field crops. These projects focus on understanding soils, seeds, insects, plant care, harvesting, weed identification, and control. Many projects focus on understanding relationships between trees, people, and communities.

Field Crops

Learn about soil testing; grow and harvest crops; plant a wheat variety test plot; and learn about specialty harvest crops and production. Plant a wheat variety test plot; and learn about specialty harvest crops and production.

Forestry

Learn about soil testing; grow and harvest crops; plant a wheat variety test plot; and learn about specialty harvest crops and production. Experiment with soil testing; grow and harvest crops; plant a wheat variety test plot; and learn about specialty harvest crops and production. Enter a photo contest or fair exhibit. Enter the Photography judging contest at the Kansas State Fair.

Health and Wellness

Health, exercise and recreation are vital parts of daily life. In these projects you can focus on physical activity, healthy eating, exercise, sports and recreation, or first aid.

Health

Learn about different types of recreation; identify your interests; and discover what you believe and explain why. You’ll also learn about the value of employment.

Horse

Loves horses? Want to learn to handle care for, and ride your horse? Members may own or lease their horse. Learn about horse breeding and horseriding. Learn about different types of recreation; identify your interests; and discover what you believe and explain why. You’ll also learn about the value of employment.

Bicycle

Learn and practice bicycle safety; identify parts of the bicycle; and design your personal safety plan. Run for an office. Attend Campference or the Kansas State Fair. Enter a photo contest or fair exhibit. Enter the Photography judging contest at the Kansas State Fair.

Photography

Capture your friends, family and important moments of your life. Learn factors to use when choosing a camera. Practise camera techniques. Learn about digital photography and learn about photography equipment.

Level 2

Capture your friends, family and important moments of your life. Learn factors to use when choosing a camera. Practise camera techniques. Learn about digital photography and learn about photography equipment.

Horse Show at the Kansas State Fair.

The Goat Show at the Kansas State Fair.

The Home Environment project will help you explore an interior design career.

The self-determined project is just that—you choose what you do or study. Is there something you wish to learn or improve? The self-determined project may be related to food; learn about biotechnology and poultry careers.

Poultry

This project is designed to help you learn about chickens and other poultry. You will learn about different types of birds; identify different breeds of chickens; and learn how to care for and handle your birds. Learn how eggs are formed; learn how to select and judge chickens; make an egg candler; learn about pecking orders; lead younger members in egg experiments; learn about different breeds of chickens for food; and learn about biotechnology and poultry careers.

Leadership

Participate in the Poultry Judging Contest at the Kansas State Fair.

Rabbits

The rabbit project will help you learn how to raise and show rabbits. Identify the parts of a rabbit; learn good feeding and watering practices; learn about different types of rabbits; and learn how to care for newborn rabbits (kits). It is best to enroll in the 4-H project for your first 4-H year, and then you can develop a rabbit project over the next several years.

Learning by Doing

Take a 4-H Rabbit judging team: start with a doe and create a rabbit project by selling rabbits. Start by learning the parts of a rabbit. Identify different breeds of rabbits; identify the parts of a rabbit; learn good feeding and watering practices; learn about different types of rabbits; and learn how to care for newborn rabbits (kits). It is best to enroll in the 4-H project for your first 4-H year, and then you can develop a rabbit project over the next several years.

Learning by Doing

Discover the power of the wind. Learn how wind can be used for sailing, lifting, pumping water, generating electricity, and even creating entertainment. Design and build a wind powered boat; design a wind turbine; design and build a wind powered fan; and more. The power of the wind can even withstand 4-H projects and explain why the wind blows and discover the wind in art and literature.
As you older you can determine your family's cultural view; measure electric usage of appliances; test ground outlets; explore electronics; build simple radios, microphones, and telescopes; and explore careers in electronics and engineering.

Small Engines

Explore and make a video or do a project talk about small engines work as well as how to service them and keep them running safely. Start by learning the parts and cycles of engines. Learn how to design and build a wind powered boat; design and build wind turbine; observe why the wind blows; and discover the wind in art and literature.

Entomology

Have you chased butterflies or caught a ladybug that you wondered the kind it was? Do you get excited when you find a scarab or a firefly? Then Entomology is the right choice for you. You’ll learn about different insects, how to identify them, and what they do. You’ll learn how insects live in their environment; learn how insects help the environment; identify living things in a positive way; learn to cope with change; know that family forms change; learn physical cycles of adolescent insects; identify character of friends. Learn socially accepted manners and customs. Observe child behavior.

Family Studies

Have you ever wondered how someone crocheted a scarf or embroidered the pillowcases? Then Fibers and Needle Arts is the right choice for you. You’ll learn about different fibers and how to treat them; sew and knit to create clothing; learn to design and make a hat and a sleeping bag; learn to knit and make a sweater; learn how to spin thread; and learn how to weave a rug or a scarf. Learn textile art methods from different cultures that have been passed on from generation to generation; learn how to create a fiber art piece; learn textile art methods from different cultures that have been passed on from generation to generation; learn how to create a fiber art piece.

Field Crops

Have you ever wondered what kind it was? Do you get excited when you find a scarab or a firefly? Then Entomology is the right choice for you. You’ll learn about different insects, how to identify them, and what they do. You’ll learn how insects live in their environment; learn how insects help the environment; identify living things in a positive way; learn to cope with change; know that family forms change; learn physical cycles of adolescent insects; identify character of friends. Learn socially accepted manners and customs. Observe child behavior.

Geology

Have you ever found an interesting rock and wondered what kind of rock it was? Do you get excited when you find a scarab or a firefly? Then Entomology is the right choice for you. You’ll learn about different insects, how to identify them, and what they do. You’ll learn how insects live in their environment; learn how insects help the environment; identify living things in a positive way; learn to cope with change; know that family forms change; learn physical cycles of adolescent insects; identify character of friends. Learn socially accepted manners and customs. Observe child behavior.

Health and Wellness

Have you ever wondered how someone crocheted a scarf or embroidered the pillowcases? Then Fibers and Needle Arts is the right choice for you. You’ll learn about different fibers and how to treat them; sew and knit to create clothing; learn to design and make a hat and a sleeping bag; learn to knit and make a sweater; learn how to spin thread; and learn how to weave a rug or a scarf. Learn textile art methods from different cultures that have been passed on from generation to generation; learn how to create a fiber art piece; learn textile art methods from different cultures that have been passed on from generation to generation; learn how to create a fiber art piece.

Horse

Love horses? Want to learn to handle care for, and ride your horse? Members may own or lease their horses for the fair. Learn about horse care and feeding. Learn about horse behavior.

Horse Judging Contest

Take a stall of farm, participate in the State Horse Judging Contest, State Horse Quiz Bowl, Horse Panorama, horse presentations and hip-hop, and district and state horse shows.

Interior Design

Learn by Doing: Parent partner with a pro to explore and discover their child’s interests. Get in a hands-on intergenerational community service project. Establish a baby-sitting service.

Photography

Take a photo and enter it in a photography contest. Use filters. Learn to use a light meter. Learn shutter speeds and f-stops. Use the Rule of Thirds. Learn to capture a point in time.

Potato judging and market shows;

Self-Determined

The self-determined project is just that—you decide what you do or study. Is there something you have a passion for that is not included in the 4-H project listings? This is your opportunity.
SpaceTech

Build model rockets, robots, and explore space. Navigate your world with GIS and make better decisions using GIS. Learn about computers and how to repair them and network devices. Make websites and offer your ideas for exploring the field of science and technology.

Rocketry/Aerospace

Aerospace is a model rocket works; study equipment and procedures for a safe launch; learn the Model Rocket Safety Code; and build and launch your own model rockets.

Astronomy

Study the history of telescopes; learn about the Galilean and Newtonian telescopes; build a simple telescope; learn planet order by making a key ring bead system; view solar bodies; build spectacles; distinct light with prisms; and learn display tips and how to set up public viewings.

Learn about robot arms, legs, wheels, or under-water propulsion. Explore sensors, analog, and digital systems. Build basic circuits including a robot. Program a robot to do a task.

Geospatial

Learn to use Global Positioning Systems (GPS) to identify locations and measure distances. Make maps of local or national scale or even set up via geographic Information Systems (GIS). Use maps to solve traffic problems, pin your location or search for resources, and reduce disease risk.

Learn the basic components of a computer, the similarities and differences of office automation and computer software applications; learn Internet safety. As you get older, learn to build, maintain, and repair a computer. Learn programming languages and network security.

Learning by Doing: Geospatial

Explore GPS technology and systems. Or, use a Geocaching activity for your youth club, a 4-H club, or school.

Swine

Want to learn about raising, caring for, and marketing pork or improving your boar or sow? Enroll in the swine project where you can see pork production from farrow to finish. Through your project work, you’ll learn how to accurately measure and mark boards, how to use various tools to identify body parts of a hog; identify different swine breeds; learn types of feed; identify symptoms, causes, and treatments of common swine diseases; use various systems and performance data; and explore career opportunities in the swine industry.

Learning by Doing: Swine

Explore swine production. Or, seek some safe use of rifle, shotgun, bow, etc. through practice,talk,demonstrations, and exhibits. Exhibit shooting sports at the county level and district events. State 4-H members from different disciplines are held in the fall and spring. Participate in the instructorsJunior Apprentice Training Program (JATP) age level.

Beef

The beef project is a great way to learn about raising, caring for, and managing beef cattle. Begin with a bucket calf and build your own herd as you grow in the project. Through this project, you’ll learn about different breeds of beef cattle; parts of the animal; how to locate; and how to identify. Learn to judge beef cattle for market and/or breeding; how to produce high quality beef; how to use data and technology in an efficient beef cattle operation.

Bee-Buck Contest

This project is open to 7- to 12-year-old youth. Calves may be purchased or orphaned but is to be bottle fed. Picture:

Large Beef

Select, raise, and show a market steer or heifer. Learn the value of performance data to make breeding decisions.

Learning by Doing: Large Beef

Exhibit at local beef shows, State 4-H Livestock Sweepstakes at K-State (includes: Livestock Judging Contest, Quiz Bowl, Skillathon, and Meats Judging Contest), State Beef Show at the Kansas State Fair, and the Kansas Jr. Livestock Show.

Market Beef

Select, raise, and show a market steer or heifer. Learn the value of performance data to make breeding decisions.

Learning by Doing: Market Beef

Exhibit at local beef shows, State 4-H Livestock Sweepstakes at K-State (includes: Livestock Judging Contest, Quiz Bowl, Skillathon, and Meats Judging Contest), State Beef Show at the Kansas State Fair, and the Kansas Jr. Livestock Show.

Market Lamb

Select, raise, and show a market lamb. Learn about the sheep and their uses; manage and train sheep for show; learn sheep safety procedures and obtain ownership for maintaining a flock; identify symptoms, causes, and treatment of common diseases; study nutritional requirements for various species and breeds; understand production and genetics of sheep; study technology’s impact on sheep production; and explore career opportunities in the sheep industry.

Learning by Doing: Market Lamb

Show at the Kansas State Fair, Youth Sheroes Day at K-State.

Market Goat

Select, raise, and show a market goat. Learn about the goat herd. Throughout the project, you can learn about the goat’s impact on sheep production; and explore career opportunities in the goat industry.

Learning by Doing: Market Goat

Show at the Kansas State Fair, Youth Sheroes Day at K-State.

Dog Care and Training

Whether you have a dog or hope to get one, this project will help you learn more about dogs, from basic care and grooming to advanced training commands. Learn about different dog breeds and choose the best breeds for your family. Explore dog behavior, body language, and obedience training. Learn about proper nutrition to keep your dog happy and healthy.

Learning by Doing: Dog Care and Training

Show your dog at county shows and the State 4-H Dog Show at the Kansas State Fair. Members can also participate in student-oriented dog activities and other activities that do not require dog ownership, such as the State 4-H Dog Conference.

Energy Management

Energy Management includes the Electric/Electronic, Small Engines, and Power of the Wind and Energy Management sectors. These projects will help you understand how to power the world today and think about future energy needs.

Electric/Electronics

Learn important general electrical concepts as you experiment with lighting switch and circuits, test voltages and even build motors. Study energy use, magnetism, electronics and transistors.