SpaceTech
Build model rockets, robots, and explore space. Navigate your vehicle with GPS and make heated decisions using GIS. Learn about computers and how to repair them and network devices. The vehicles you offer your child help explore of 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 learn your own model rocket.

Astronomy
Study the history of telescopes; learn about the planets and uses of telescopes; build a simple telescope; learn planet order by making a key ring beaded system; view solar videos; build spectrometers; detect light with light 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. Program 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 or entire regions using geographic Information Systems (GIS). Use maps to solve traffic problems, pin-point pollution sources, and reduce disease.

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

Learning by Doing:
Learning by Doing - Space Tech skills to others. Organize a GeoCaching activity for your 4-H club. Launch a rocket and have a fun.

Swine
Want to learn about raising, caring for, and repairing the tools and equipment on a farm? Enrol in the swine project where you can study pork production from farrow to finish. Through your participation in the swine project you’ll learn how to accurately measure and mark boards, how to use various tools to keep your animals healthy, and how to keep the proper record of daily gains, body parts, and identify what sex a piglet is. Swine project work is an excellent way to discover new skills and potential careers. Curriculum and other resource materials can be ordered through your county or district extension office or online. Have a great time with your 4-H projects.

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 and dam. Keep a record of how you manage your herd. Through this project, you’ll learn about different breeds of beef cattle; parts of the animal; how to measure and mark your boards; how to feed, groom, and show your animal; how to 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 cattl e operation.

Beef Cattle
This project is open to 7-12-year-old youth. Calves may be purchased or orphaned but are to be herded and handled.

Market Beef
Select, raise, and show a market steer or heifer.

Breeding Beef
Select, raise, and show a breeding heifer. Learn the value of performance data to make breeding decisions.

Learning by Doing:
Learning by Doing - Exhibit at local beef shows, State 4-H Livestock Sweepstakes at K-State (Includes: Livestock Judging, Breeding, and Meat Judging Contest); State Beef Show at the Kansas State Fair, and the Kansas Livestock Show.

Citizenship
In the Citizenship project you’ll learn about yourself, family, and the way you can play a role in your community, country, and world. This project will encourage you to meet people and learn to work with groups. You can learn about local, state, and federal government. You can also learn new friends from other countries and cultures through exchanges. You will also learn about voter registration and how to discover technology in tools, and explore career opportunities in the swine industry.

Learning by Doing:
Learning by Doing - Volunteer in your community; attend Citizenship in Action in Topeka; attend Citizenship Workshop at Kansas State University, D.C.; participate in exchange trips or host youth from another country.

Clothing and Textiles
The Clothing and Textiles projects will introduce you to the world of fashion, fabrics, and access or. Learn to create and sew your own items in Clothing Construction or develop your sense of design to create your own style through the Baywatch project. These projects can build your confidence in managing your wardrobe, choosing 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, practice a variety of stitches, and create fashionable and functional garments. But most importantly, learn how to take care of your family’s wardrobe.

Buying management
Buyers will gain you that edge on knowing your wardrobe; planning a budget for an outfit; learning to select colors and styles that fit your body type; maintaining balance; choosing between different shades of colors; making decisions about clothing pur- chases by choosing fiber; care instructions; and analyzing clothing advertisements.

Learning by Doing:
Learning by Doing - Make fair exhibits; make items for community service; participate in Fashion Revue to model clothing constructions by baywatch items.

KANSAS 4-H PROJECT SELECTION GUIDE
This guide gives a brief description of each of the official state 4-H projects. Support for each project can vary depending on your local program and the volunteers available to help. Exploring your interests through 4-H projects and skills will help you develop new skills and materials can be ordered through your county or district extension office or online. Have a great time with your 4-H projects.

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 dog breeds and choose the best breeds for your family. Explore dog behavior, border collies, and obedience training. Learn about proper nutrition and keep your dog happy and healthy.

Learning by Doing:
Learning by Doing - Show your dog at county shows and the State 4-H Dog Show at the Kansas State Fair. Members in this project can participate in local and other activities that do not require dog ownership, such as the State 4-H Dog Conference.

Energy Management
Energy Management includes the Electric/Elec- tronics, Solar Systems, and 4-H Projects. These projects will help you understand how to power the world today and think about how to meet future energy needs.

Electric/Electronics
Learn important general electrical concepts as you explore components, lighting switches and circuits, voltages and even build motors. Study energy use, magnetism, electronics and transistors.
Organize a park, highway, or waterway cleanup; explore ecosystems; understand concept of footprint.

Environmental Science

Start an insect collection for exhibit at the fair. Plant a butterfly garden. Catch and observe insects to learn that something is fun? Then the Entomology project is for you.

Learn behaviors that develop friendships; respect others and their belongings; understand different family rules; express feelings in a positive way; learn to cope with change; know that family forms change; learn physical changes of adolescence; identify character strengths of friends. Learn socially accepted manners and customs. Observe child behavior.

Family Studies

Learn about growing and maintaining a healthy family. In Family Studies projects, you’ll learn about child development, family strengths, and managing a household.

Children’s Health

Learn how children grow and develop physically, socially, mentally, and emotionally. Observe development of children. Identify basic character strengths of friends. Learn socially accepted manners and customs. Observe child behavior.

Family Money Management

Small Engines

Learn about different types of recreation; identify consumer rights; and learn about different types of recreation; identify consumer rights; and learn to care for and handle your birds. Learn how to feed and care for your pets.

Entomology

Have you ever wondered how someone crochets? Learn single crochet, double crochet, and many other stitches. Choose different breeds and learn about your pet’s feeding and care. Whether you’re a fish, hamster or cat lover, these projects can help you learn more about your 4-H projects, research processes, exploring careers, and the relationship between normal, wide angle, telephoto, and zoom lenses.

Photography

Enjoy the 4-H project listing? This is your opportunity to care for newborn rabbits (kits). It is best to have your project materials nearby when you are working on the project. You will learn to express yourself in a positive way; learn to cope with change; know that family forms change; learn physical changes of adolescence; identify character strengths of friends. Learn socially accepted manners and customs. Observe child behavior.

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Entomology
Have you ever wondered how someone concocted a scarf or embroidered the pillowcases? Did you ever dream of starting your own business — a gift shop or a flower shop? If so, then you’re in for a treat! Learning entomology will help you make new discoveries and become a part of a vibrant community of scientists. In this project, you will learn about the fascinating world of insects and the role they play in our environment. You may even find a new hobby or career path along the way. The exploration of insects opens the door to a world of diversity and discovery, from the smallest insects to the largest creatures. Entomology is a fascinating field of study that involves the identification, classification, and study of insects. By learning about insects, you will gain a deeper understanding of the ecosystem and the role insects play in maintaining the balance of nature. In this project, you will

- Learn to identify trees; determine differences in leaf shape and form; and gain an understanding of the various families of trees.
- Experiment with soil testing; grow and harvest seeds indoors; learn preventative pest control; and learn how to deal with adverse conditions.
- Learn when, where, and what to plant; learn the differences between cold and warm-season vegetables; learn plant parts and how they work; learn to take care of your garden; and understand the value of employment.

Rabbits
The rabbit project will help you learn how to take care of a rabbit. Whether you are looking to raise rabbits for a hobby, for show, or to sell, the rabbit project offers a variety of opportunities to learn about rabbit care and handling. In this project, you will

- Learn to identify the species and how to care for newborn rabbits (kits). It is best to learn the correct feeding and watering practices; learn how to keep the rabbit clean; and learn about pest control.
- Learn to identify the parts of a rabbit; breed rabbits; identify different types of rabbits; and learn how to keep records of your rabbit project.
- Experiment with soil testing; grow and harvest seeds indoors; learn preventative pest control; and learn how to deal with adverse conditions.

Poultry
The poultry project will help you learn how to take care of chickens, turkeys, or other poultry. Whether you are looking to raise chickens for eggs or meat, or turkeys for meat, this project offers a variety of opportunities to learn about poultry care and handling. In this project, you will

- Learn to identify the species and how to care for newborn rabbits (kits). It is best to learn the correct feeding and watering practices; learn how to keep the rabbit clean; and learn about pest control.
- Learn to identify the parts of a rabbit; breed rabbits; identify different types of rabbits; and learn how to keep records of your rabbit project.
- Experiment with soil testing; grow and harvest seeds indoors; learn preventative pest control; and learn how to deal with adverse conditions.

Reading
Do you enjoy being in the spotlight? Do you like being the center of attention? If so, you may want to join a 4-H Rabbit judging team. This project will help you learn how to take care of rabbits, how to show rabbits, and how to deal with people. In this project, you will

- Learn to feed and care for newborn rabbits (kits). It is best to learn the correct feeding and watering practices; learn how to keep the rabbit clean; and learn about pest control.
- Learn to identify the parts of a rabbit; breed rabbits; identify different types of rabbits; and learn how to keep records of your rabbit project.
- Experiment with soil testing; grow and harvest seeds indoors; learn preventative pest control; and learn how to deal with adverse conditions.

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 list? This is your opportunity to take control of your learning experience and explore the topics that interest you the most. In this project, you will

- Participate in Youth Meat Goat Day at K-State, Tilden Independence Day at K-State, and the State Meat Goat Show at the Kansas State Fair.
- Learn about different types of recreation; identify personal areas of strength; and learn the benefits of recreation for your body and mind.
- Participate in Youth Meat Goat Day at K-State, Tilden Independence Day at K-State, and the State Meat Goat Show at the Kansas State Fair.
- Learn about different types of recreation; identify personal areas of strength; and learn the benefits of recreation for your body and mind.
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- Learn about different types of recreation; identify personal areas of strength; and learn the benefits of recreation for your body and mind.
- Participate in Youth Meat Goat Day at K-State, Tilden Independence Day at K-State, and the State Meat Goat Show at the Kansas State Fair.
Learning by Doing: Identify and pursue a personal passion or interest; set goals and evaluate the completion of these goals, and share your hobby, interest, or activity with others.

Sheep

The sheep project can be a great way to learn about the sheep industry and what it means to be a shepherd. Learn about sheep breeds and their uses; manage and train sheep for show; learn sheep management practices for maintaining a flock; identify symptoms, causes, and treatments of common diseases; study nutritional requirements for various purposes; and learn the production and genetics of sheep. Teach others how to raise sheep responsibly.

Learning by Doing: Participate in the Sheep judging contests, the Sheep judging at the Kansas State Fair, and the Sheep judging at the Kansas State University Sheep Show.

Sewing

Learn to sew with Seams & Linings, Sewing, and Sewing Employer. Sew clothing, such as sweaters, dresses, shorts, and skirts. Practice sewing skills by making clothing items such as a pair of pants, a jacket, or a shirt.

Learning by Doing: Learn to sew a simple garment, like a blanket or a pillowcase.

SpaceTech

Build model rockets, robots, and explore space. Navigate your robot with a laptop computer and make decisions using GIS. Learn about computers and how to repair them and network devices. Participate in the Youth Day at K-State, the Youth Robotics Competition, and the Space Day at the Kansas State Fair.

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 artistic techniques. The visual arts project teaches artistic skills and the elements and principles of design. The project includes within Visual Arts are: Ceramics, Interior, and other areas, depending on your local 4-H program.

Learning by Doing: Practice drawing, painting and printing techniques in paint, pencil, charcoal or mixed media; learn about optical illusions; create art; and use data and technology in an efficient beekeeping operation.

Beef Cattle

This project is open to 7- to 12-year-old youth. Calves may be purchased or orphaned but to be both market fed. The Beef project teaches you about beef cattle. Learn the value of performance data to make breeding decisions. The Beef project teaches you about beef cattle. Learn the value of performance data to make breeding decisions.

Learning by Doing: Exhibit at local beef shows, State 4-H Livestock Sweepstakes at K-State (includes: Livestock Judging, Dairy Bucket, Skillathon, and Meat Judging Contest), State Beef Show at the Kansas State Fair, and the Kansas Javelin Show.

Energy Management

Learn to identify the similarities and differences in office applications; learn Internet safety. As a business professional, you need to be aware of the different options available to you. Learn about technology in tools, and explore career opportunities in the swine industry.

Breeding Beef

Select, raise, and show a market steer or heifer. Learn about time in the project you'll learn how to accurately judge a herd; identify different swine breeds; learn types of feeds; identify symptoms, causes, and treatments of common diseases; study nutritional requirements for various purposes; and learn the production and genetics of swine.

Learning by Doing: Through this project you'll learn about different breeds of beef cattle; parts of the animal; how to judge beef cattle; how to identify different beef breeds; and how to judge beef cattle for market and/or breeding. Study how to produce high quality beef, and how to use data and technology in an efficient beekeeping operation.

Dairy Goats

The Dairy 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. Throughout the project, you'll learn about different breeds of beef cattle; the parts of the animal; how to judge beef cattle; how to identify different beef breeds; and how to judge beef cattle for market and/or breeding. Study how to produce high quality beef, and how to use data and technology in an efficient beekeeping operation.

Learning by Doing: Learn about beef cattle, parts of the animal; how to judge beef cattle; how to identify different beef breeds; and how to judge beef cattle for market and/or breeding. Study how to produce high quality beef, and how to use data and technology in an efficient beekeeping operation.

Dairy Cattle

The Dairy project is a great project for smaller properties. Goats are easy to train and handle. Milk can be consumed by the family, fed to calves, or fed to other market animals. You might start with one goat, and eventually graduate to a herd of dairy goats.

Learning by Doing: Throughout the project, you can learn about breeds of dairy goats, parts of a goat, and the dairy care and welfare of animals, record keeping, and more.

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 lifestyle. Explore dog behavior, body language, and obedience training. Learn about proper nutrition to keep your dog healthy.

Learning by Doing: Participate in the Kansas State University 4-H Dog Show, and the Kansas State University 4-H Dog Show.

Energy Management

Learn about the general electrical concepts as they apply to computers. Learn about new technologies, circuits, and energy efficiency. Learn about new technologies, circuits, and energy efficiency.