to create your own project. Research a sport, hobby, or career—sail the sky is the limit.

Learning by Doing:
- Identify and pursue a personal passion or interest; set goals and evaluate the completion of your goals, and explore your hobby, interest, or activity with others.

Sheep
The sheep project can be a great way to learn about the sheep industry and develop skills in the care and management of sheep and their uses. Participate in market and beef projects to learn about different 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 of various sheep breeds; learn about reproduction and genetics of sheep; study technology’s impact on sheep production; and explore career opportunities in the sheep industry.

Market Sheep
Select, raise, and show a market sheep. Management of the animal; market ewes should not be returned to a breeding flock.

Breeding Sheep
Select, raise, and show a breeding ewe; purchase a flock of breeding ewes.

Learning by Doing:
- Participate in the Livestock Sweepstakes (includes Livestock Judging Contest, Quiz Bowl, Skillathon, and Meats Judging Contest), State Sheep Show at the Kansas State Fair; Youth Sheep Show at K-State.

Shooting Sports
Want to learn to shoot at a clay target, trap, skeet, or sporting clays? Learn about different firearms, ammunition, and the equipment to handle it. These projects will teach you to identify locations and measure distances.

Learning by Doing:
- Shoot a target at a clay target range at the state or club level.
- Participate in the Shooting Sports Program at your school, community center, or local gun range.
- Learn to shoot with and without the use of a firearm.

SpaceTech
Build model rockets, robots, and explore space. Navigate your world with GPS and learn about the different decisions using GIS. Learn about computers and how to repair them and network devices. Explore project offers you will learn about exploring the field of science and technology.

Robotics/Aerospace
Construct a model rocket; work with equipment and procedures for a safe launch; learn the Model Rocket Safety Code; build and launch your own model rockets.

Astronomy
Study the history of telescopes; learn about different kinds and uses of telescopes; build a simple telescope; learn planet order by making a ring key beard system; view solar evers; build a telescope; display objects; light a prism; and 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 your Rabbit; Design a robot. Program a robot to do a task.

Geospatial
Learn to use the Global Positioning Systems (GPS) to identify locations and measure distances. Make maps of local neighborhoods or larger states using Geographic Information System (GIS). Use maps to solve traffic problems, pin…

Learning by Doing:
- Participate in the Livestock Sweepstakes (includes Livestock Judging Contest, Quiz Bowl, Skillathon, and Meats Judging Contest), State Sheep Show at the Kansas State Fair; Youth Sheep Show at K-State.

Swine
Want to learn about raising, caring for, and managing a market or breeding herd? Enroll in the swine project where you can produce pork from farrow to finish. Through your participation, you’ll learn about different breeds, animal parts of a hog; identify different swine breeds; learn types of feed; identify symptoms, causes, and treatments of common diseases; study production and performance data; and explore computer applications in the swine industry.

Market Swine
Select, raise, and show a market hog.

Breeding Swine
Select and raise a breeding gilt. As you grow in the project, you might manage your own breeding herd and sell market hogs to others.

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; work towards the production of beef cattle through this project you’ll learn about different breeds of beef cattle; parts of the animal; how beef is produced; how to manage beef; 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.

Beef Bucket Calf
This project is open to 7- to 12-year-old youth. Calves may be purchased or orphaned but are to be inspected by the judge.

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

Breeding Beef
Select a market or show a breeding heifer. Learn the value of performance data to make breeding decisions.

Learning by Doing:
- Participate in the Livestock Sweepstakes (includes Livestock Judging Contest, Quiz Bowl, Skillathon, and Meats Judging Contest), State Beef Show at the Kansas State Fair, and the Kansas and Jornal Livestock Judging Contest.

Citizenship
In the Citizenship project you’ll learn about yourself, family, and friends and how to take pride in your role in your community, country, and world. This project will encourage you to meet people and learn to work with groups. You can also learn about local, state, and national government. You can also learn new friends from other countries and cultures through exchanges.

Learning by Doing:
- Volunteer in your community; attend Citizenship in Action in Topeka; attend Citizenship in Action in Washington, 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 clothing, fashion, and access. The projects will teach you something you learn in the woodworking project.

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, and create your own patterns. It is a great project to help you to learn how to design your project and customize it for the perfect fit.

Buymanhership
Buymanhership will give you that edge on know- ing your wardrobe; planning a budget for an outfit; learning to select colors and styles that complement your body type and style; making choices among different shades of colors; making decisions about clothing pur- chases by comparing fit, can’t afford, cost, brand, and style; and analyzing clothing advertisements.

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

Communication
The Communication project helps kids improve their communication skills. Being a better speaker, writer, or record keeper will help you through-out your life. The communication project will help you learn to interpret verbal and non-verbal information, develop effective public speak- ing skills, prepare and present a speech, and much more.

Learning by Doing:
- Tell people in your club about your other 4-H projects in an illustrated talk or demonstration; write a thank-you note; run for an office in your club; complete a record book; present a speech.

Dairy Cattle
In the Dairy project you’ll learn about raising and managing dairy animals. 4-H members usually start with a heifer calf or yearling heifer, and eventually create your own dairy herd. Throughout the project you’ll learn about breeds of dairy cattle, parts of a cow, judging dairy cattle, and managing oral health and least strength, and learn the key principles of milking and milk products. Older 4-H members with mature cows learn about timeliness and the importance of communication, and careers in the dairy industry. Specific projects include: Dairy Cattle Bucket, Dairy Heifer, and Dairy Cow.

Learning by Doing:
- Volunteer at Kansas All Breeds Junior Dairy Show, Judging Contest, Skillathon, and Dairy Quiz Bowl.

Dovey Goats
The Daisy Goat project is a great animal project for smaller properties. Goats are easy to train and handle. Milk can be consumed by the family, fed to bucket calves, or fed to different market animals. You might start with one doe, raise a buck to maturity, and create your own dairy goat herd. Throughout the project you can learn about breeds of dairy goats, parts of a goat, key aspects of milk production, and careers in the dairy industry.

Learning by Doing:
- Participate in county and state dairy goat shows; join a regional dairy goat organization.

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, health care, and obedience training. Learn about proper nutrition to keep your dog healthy and happy.

Learning by Doing:
- Show your dog at county shows and the State 4-H Dog Show at the Kansas State Fair. Members may participate in many other activities that do not require dog owner- ship, such as the State 4-H Dog Conference.

Energy Management
Energy Management includes the Electric/Elec- tronics, Small Engines, and Power Management projects. These projects will help you understand how to power the world today and think for the future of energy needs.

Electric/Electronics
Learn important general electrical concepts as you experiment with making lights switch and circuits, test voltages and even build motors. Study energy use, magnetism, electronics and transistors.
As you older you can determine your family's local utility; measure electric usage of appliances; test ground outlets; explore electronics; build simple radios, microphones, and recorders; and explore careers in electronics and engineering.

Small Engines
Smaller engines work as well as how to service them and keep them running safely. Start by learning the parts and cycles of engine operation. Small engines have the same basic parts as large engines, but they are smaller in size, simpler in design, and more air efficient. Older 4-H members will trouble-shoot, repair, and rebuild small engines. Learn about fuel and oil 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, and generating electricity. Learn how to design and build a wind powered boat; design and build wind turbines; discover where and how people use wind power. Older 4-H members will start making small engines; design and build a wind powered boat; and explore starting a small engine business or career.

Entomology
Have you chased butterflies or caught a ladybug to see how it was made? The Fiber Arts project will help you learn about what it takes to care for your household friends. You'll learn about different pest species and how to keep them healthy.

Consumer Skills
Do you shop wisely? Do you know how to manage a checking account; recognize target marketing; change; understand peer pressure; learn to decide what you do or study. Is there something you have a passion for that is not included in these projects? It is best to enroll in all of them. Members will be exposed to numerous project areas with the guidance of older members and adult volunteers.

Meat Goats
Start your own goat herd; and evaluate feed and feed supplements. Learn about the value of employment.

Forestry
Start by learning the parts and cycles of engine operation. Small engines have the same basic parts as large engines, but they are smaller in size, simpler in design, and more air efficient. Older 4-H members will trouble-shoot, repair, and rebuild small engines. Learn about fuel and oil regulations for small engines; and explore starting a small engine business or career.

Home Environment
Interiors are concerned with designing and decorating rooms to achieve a look that is comfortable and attractive. Interior designers must also have a knowledge of the integrated fields of art, woodworking, upholstery, and cabinet-making, as well as a background in the sciences of color, light, and structural design.

Human Anatomy
As you get older you can determine your family's local utility; measure electric usage of appliances; test ground outlets; explore electronics; build simple radios, microphones, and recorders; and explore careers in electronics and engineering.

Outdoor Adventures
Go on an outdoor adventure. Learn about hiking, camping, and backpacking; learn about finding shelter. Observe and care for nature. Find out about plants, wildlife, and landmarks. Apply the "Leave No Trace" ethic when backpacking and hiking.

Poultry
Learn casting on, knit, and purl stitches. Learn single crochet, double crochet, and many other stitches; advance to hairpin lace. Learn the symptoms and treatment of diseases. Learn when, where, and what to plant; learn about forest conservation techniques.

Bicycle
Learn casting on, knit, and purl stitches. Learn single crochet, double crochet, and many other stitches; advance to hairpin lace. Learn the symptoms and treatment of diseases. Learn when, where, and what to plant; learn about forest conservation techniques.

Livestock Stewpicks, and the State Meat Goat Show at the Kansas State Fair.

Performing Arts
Do you enjoy being in the spotlight? Do you like to perform while being performed on-stage or set up behind the scenes? Then you should jump into the world of "behind the scenes." You will learn to express yourself in front of a crowd.

Learning by Doing:
Express yourself by creating and presenting a three minute musical performance; create a puppet show; create costumes, sets and props; and enter your local Club Days or other contests.

Dogs
Start an insect collection for exhibit at the fair. Study how insects move and learn about insects' behavior. You'll get to see live insects from all over the world.

Horse Judging
Learn to care for and handle your horse. Learn how to work with and manage your horse. Begin to understand cat behavior. Study cat care; learn to care for cats; learn how people express emotions. Identify characteristics of friends. Learn socially accepted manners and customs. Observe child behavior.

Forestry
Start by learning the parts and cycles of engine operation. Small engines have the same basic parts as large engines, but they are smaller in size, simpler in design, and more air efficient. Older 4-H members will trouble-shoot, repair, and rebuild small engines. Learn about fuel and oil regulations for small engines; and explore starting a small engine business or career.

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Entomology
Have you chased butterflies or caught a ladybug to see how it was made? The Fiber Arts project will help you learn about what it takes to care for your household friends. You'll learn about different pest species and how to keep them healthy.

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Do you shop wisely? Do you know how to manage a checking account; recognize target marketing; change; understand peer pressure; learn to decide what you do or study. Is there something you have a passion for that is not included in these projects? It is best to enroll in all of them. Members will be exposed to numerous project areas with the guidance of older members and adult volunteers.

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Consumer Skills
Do you shop wisely? Do you know how to manage a checking account; recognize target marketing; change; understand peer pressure; learn to decide what you do or study. Is there something you have a passion for that is not included in these projects? It is best to enroll in all of them. Members will be exposed to numerous project areas with the guidance of older members and adult volunteers.
Entomology

Have you chased butterflies or caught a ladybug to see if they are fun? Then the Entomology project is for you. As you get older you can determine your family tree and explore careers in electronics and engineering.

Small Engines

Start small engines work as well as how to service them and keep them running safely. Start by learning the parts and cycles of small engines. Learn to design and build a wind powered boat; design and build wind turbines; discover why the wind blows; and discover the wind in art and literature.

Power of the Wind

Start an insect collection for exhibit at the fair. Learn about different types of recreation; identify personal areas of strength; and learn the skills it takes to be a leader such as: understanding soils, seeds, insects, plant care, and consumer buying skills to get the most for your money. Learn about different types of recreation; identify personal areas of strength; and learn the skills it takes to be a leader such as: understanding soils, seeds, insects, plant care, and consumer buying skills to get the most for your money.

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, solidity, and space to create the perfect home. The Home Environment project will help you explore an interior design career.

Leadership by Doing

Plan a room make-over, visit a design center, and interview an interior designer.

Rug Making

Create hooked and braided rugs. Spinning

Make a hand spindle. Prepare wool fibers. Weaving

Learn weaving of a loom. Figure yarn needs for items.

Ethnic Arts

Learn techniques of different cultures that have been passed on through the family.

Macramé

Create ornamental knotting. Learn, tools, techniques, and cords.

Learning by Doing

Create items for fair exhibits. Teach others the skills you’ve learned. Donate items you’ve created to hospitals, shelters, or nursing homes.

Food and Nutrition

In this project, you will have fun learning how to cook the basics and then advance to gourmet and international meals. Develop your cooking skills. You can also learn the heritage of many foods and consumer buying skills to get the most for your money. Learn how to make healthy snacks and modify recipes to fit a healthy lifestyle.

Learning by Doing

Create fair exhibits. Plan and prepare snacks and meals for your family. Incorporate exercise into daily life. Learn about food safety.

Geology

Have you ever found an interesting rock and wondered what kind it is? Do you suspect about finding fossils? Then dig into the Geology project. Discover the types of rocks and fossils in your area and other geological formations across Kansas and in other states.

Learning by Doing: Geology

Create field trips to various Kansas locations. Learn to identify trees; determine differences in forest types across Kansas and in other states.

Horticulture

Learn about different types of recreation; identify personal areas of strength; and learn the skills it takes to be a leader such as: understanding soils, seeds, insects, plant care, and consumer buying skills to get the most for your money. Learn when, where, and what to plant; learn about finding fossils; then dig into the Geology project. Discover the types of rocks and fossils in your area and other geological formations across Kansas and in other states.

How To Read

Do you enjoy a good book? This project encourages you to honor your love of reading to learn more about new topics, or entertain yourself. As Dr. Seuss wrote, “The more that you read, the more things you will know.” The rabbit project will help you learn how to care for and handle your rabbits. Learn how eggs are formed; learn how to select judges; broilers; make an egg candler; learn about pecking orders; lead younger members in egg experiments; learn how to raise and care for new rabbits (kits). It is best to enroll in the fall for preparing your first litter.

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 listing? This is your opportunity...
to create your own project. Research a sport, hobby or the sky is the limit.

Learning by Doing: Identify and pursue a personal passion or interest; set goals and evaluate the completion of activities; share your hobby, interest, or activity with others.

Sheep
The sheep project can be a great way to learn about the sheep industry. It can help you understand and learn about any of the 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 sheep classes and breeds; and understand the reproductive and genetic aspects of sheep. The project will also provide insight into a career opportunities in the sheep industry.

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

Beef
Select, raise, and show a beef animal to learn about the ownership of animals and the development of beef and beef by-products; manage and train the animal for show; learn about the requirements for marketing and processing sexed animals; and learn about the decision-making process involved in a breeding herd and selling market hogs to others.

Learning by Doing: Participate in Kansas All Breeds Junior Dairy Show; Show your dairy project at the Kansas State Fair; Attend livestock judging contests and promote the dairy industry; and participate in exchange trips or host youth from another state.

Dairy Goats
The Dairy Goat project is a great animal project for smaller properties. Goats are easy to train and handle. Milk can be consumed by the family, fed to bucket calves, or sold to other market animals. You might start with one doe, raise kids, and eventually create your own dairy herd. Throughout the project, you can learn about breeds of dairy goats, parts of a goat, milk production, dairy goat herd health, and how to manage a dairy herd. You will also learn about robot arms, legs, wheels, or under- water propulsion. Explore sensors, analog, and digital systems. Build a robot. Program a robot to do a task.

Robotics
Learn about robots, arms, legs, wheels, or underwater propulsion. Explore sensors, analog, and digital systems. Build a robot. Program a robot to do a task.

Learning by Doing: Participate in the Livestock Sweepstakes (includes: Livestock Evaluation Contest, Quiz Bowl, Skillathon, and Meats Judging Contest); State Swine Show at the Kansas State Fair; and the State Swine Show at the Kansas State Fair; and the State Swine Show at the Kansas State Fair.

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