

Explore Your Spark!

Plant Science Project



Do you enjoy playing in the dirt? Then the Kansas 4-H Plant Science project is for you. Learn how to grow fruits, vegetables, flowers, crops, and trees.

There are three areas that you can explore in the Plant Science project: Horticulture, including vegetable and flower gardening, Field Crops, and Forestry. The Plant Science project has something for everyone.

Starting Out Beginner	Learning More Intermediate	Expanding Horizons Advanced
• Understand when, where, and how to plant.	 Compare seed varieties. Learn how to start seeds 	 Analyze plant pollination methods.
 Learn the differences between cool and 	indoors for transplanting. • Compare preventative	 Learn ways to preserve foods.
warm-season plants.Identify plant parts and	pest control methods. • Learn about selling your	 Study food industry and plant science careers.
learn how they are used.Learn how to use and	 Investigate how to grow a 	 Learn the effects of bio- technology.
care for basic garden tools.	new variety.Learn to grow plants from	 Evaluate forest conserva- tion techniques.
 Grow and harvest crops. Identify tree species. 	plant parts: leaf, etc.	 Learn how to care for trees.

parts.

Inspire Kids to Do

Explore

"I might like to do this."

Youth who explore a variety of interests before high school, through experiences like 4-H camps and educational events, can develop early interest in a career path and improve their academic performance.

Learn

"I can do this."

4-H project-based learning, guided by adult volunteers, improves youth understanding of skills and concepts, as well as their ability to problemsolve and collaborate.

Practice

"I'm interested in this."

Youth who have participated in sustained hands-on learning and engaged with professional mentors and volunteers before entering high school are more likely to explore studies and potential career paths.

Experience

"I will be this."

Real-world application is key — 91% of Kansas 4-H members have a plan for reaching their goals. Youth that have been active participants in hands-on learning, combined with strong decision-making skills, are more able to effectively navigate life.

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Expand Your Experiences!

Healthy Living

- Discover health benefits of plants and trees.
- Volunteer at a community garden.

Science and Agriculture

- Graft a bud onto a living tree.
- Experiment with soil tests.
- Research the many uses for crops that you grow.
- Plant a wheat variety test plot.

Community Vitality

- Visit your local farmers market or sell your extra produce at the farmers market.
- Donate extra produce to your local food banks or shelters.
- Adopt a flower bed at a park.

Communication and the Arts

- Give a talk or demonstration on garden tools, soil tests, how to start seeds, etc.
- Teach your club how to identify common garden weeds.
- Make a video or start a gardening blog.
- Create a leaf rubbing and teach others how to do it

Career Development

Horticulturist - Grow plants in a variety of situations including vegetable farms, orchards, and plant nurseries

Greenhouse Manager - Plans, purchases, and manages the plant production for a greenhouse.

Landscape Architects - prepare sites and design landscapes.

Agronomist - provides information to companies and farmers to sustain food production

Forester - Care for and maintain forest and trees.

Farmer – Produce grain and crops to help feed the world.

Local Contact Information

 events and learning oppor- tunities will expand your knowledge and skills in the project area. Contact your local K-State Research and Extension office for local opportunities. Read your monthly 4-H newsletter for regional, state, and national opportunities. Participate at your county Fair. Forestry 1Follow the Path Canopy Forestry 1Follow the Path Canopy Forestry 2Reach for the Canopy Forestry 3Explore the Deep Woods Horticulture (PL100) See Them Sprout Let's Get Growing Take Your Pick Crewing Drefts 	Resources and Events	Curriculum and Resources	4-H Record Keeping	Project Exhibit Ideas
	events and learning oppor- tunities will expand your knowledge and skills in the project area. Contact your local K-State Research and Extension office for local opportunities. Read your monthly 4-H newsletter for regional, state, and national opportunities. Participate at your county Fair. Attend the Kansas State 4-H Wheat Expo or the Kansas 4-H Horticulture Judging Contest. Participate at the Crops	 Forestry 1Follow the Path Forestry 2Reach for the Canopy Forestry 3Explore the Deep Woods Horticulture (PL100) See Them Sprout Let's Get Growing Take Your Pick Growing Profits General Plant Science Resources	records is a life skill. The fol- lowing forms can help you: • Setting 4-H Project Goals (4H1100) • Kansas 4-H Record Keep-	 Mixed flower baskets you planted and cared for. Cut flowers from your garden. Forestry notebooks. A flake of hay you baled. Grain you harvested or grew. Exhibiting Fruits & Vegetables, Publication C405 Preparing Cut Flowers for



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