



Plant Science
4-H Horticulture
 North Dakota 4-H Project Sheet

How does your garden grow? You will learn to plant it, dig it, grow it, show it and eat it.



Pass it on!
 Now that you know how, share it with others. Here are ideas to get you started.

Communication

- Give a presentation on garden tools or techniques.
- Make a video on how to start seeds or transplant a plant.
- Teach your club how to identify common garden weeds.

Citizenship

- Donate produce to a local food pantry.
- Adopt a flower bed at a park.
- Help out at a community garden.
- Help an elderly or disabled person by planting flowers in his/her yard.

Leadership

- Organize a flower/vegetable sale to raise money for a special cause or your club.
- Help an adult teach a gardening class.
- Volunteer to help with garden tour.

Entrepreneurship

- Grow and sell vegetables at the local farmers market.
- Start a lawn-care business.



- Learn to plan, care for and manage vegetables and/or flower gardens, lawns or commercial horticultural crops.
- Learn about pest management.
- Learn basic facts about plants and soils.
- Apply knowledge by experimenting with plants.
- Learn about landscaping and different types of gardens.

Here's what you can do all year!

Starting Out Basic/Level 1	Learning More Intermediate/Level 2	Expanding Horizons Advanced/Level 3
<ul style="list-style-type: none"> • Learn what plants do for us. • Grow and maintain a garden. • Collect different seeds. • Identify garden insects. • Learn garden safety. • Learn how to harvest produce. • Examine parts of a plant and discover the function of the parts. • Learn to identify and use common garden tools. • Learn how to exhibit produce. 	<ul style="list-style-type: none"> • Learn about garden fertilizer and nutrients plants need to grow. • Plant bulbs in the fall for spring blooms. • Learn to divide and transplant plants. • Make a container garden. • Learn about compost and make a simple compost bin. • Discover different way to prepare and use garden produce. • Sell produce at a farmers market or local grocery store. 	<ul style="list-style-type: none"> • Start an herb garden. • Learn about food preservation methods. • Take a soil sample and have it tested for nutrients. • Learn about integrated pest management for the yard or garden. • Experiment with organic production. • Test different varieties or management techniques. • Design a landscape plan for your home.

Learn more at www.ndsu.edu/4h/ or contact your county NDSU Extension office.



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Here are other opportunities to explore horticulture:

- Design an experiment and share the results at your school science fair.
- Collect seeds and garden supplies and donate them to a local organization.
- Help children plant a garden at a local day-care facility or school.
- Job shadow at a local nursery or farm to explore careers that interest you.
- Contact your county NDSU Extension office for other local workshops, activities and events.
- Interview a local Master Gardener about his/her interests.
- Interested in a college education in the area of horticulture or landscape design? Schedule a visit with North Dakota State University to explore these majors (www.ag.ndsu.nodak.edu/plantsci/horticulture/index.htm).



Exhibit Ideas

- Exhibit vegetables, herbs or flowers.
- Make a poster about the parts of a plant.
- Build a compost bin or rain barrel.
- Prepare an exhibit on how to use fresh herbs in cooking.
- Create a notebook for common plants for a butterfly garden.
- Design a landscape.
- Compare two varieties of the same plant. Show the results in a display.
- Make a terrarium.
- Prepare a poster showing proper harvest times for vegetables.
- Display different types of mulch for the garden.
- Make a cost comparison about starting your own seeds vs. buying transplants. Show the results on a poster.
- Create your own garden calendar.
- Conduct a taste comparison of different varieties.
- Keep a garden journal.
- Exhibit a seed collection.

4-H Resources

- [National 4-H Curriculum Gardening Levels 1-4](#)
- [4-H Container Gardening](#)
- [Harvesting and Preparing Vegetables for Exhibit](#)
- [Gardening Delights for All](#)
- Flower Gardening Fun — available for purchase from your local Extension office
- [Educational Trunks](#) — Lawn and Garden Equipment

4-H Resources

- Junior Master Gardener Student Handbook
- Visit NDSU's website: [Lawns, Gardens and Trees](#)
- [Garden Journal](#)
- [Growing Flowers for Containers and Gardens](#)

Record Keeping

- [Planning for My Project Adventure](#) (Ages 8-10)
- [ND 4-H Project Plan](#)
- [ND 4-H Plan of Action](#) (Ages 11-18)
- [ND 4-H Participation for Ages 11- 19](#)

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