



## Missouri 4-H

University of Missouri  
4-H Center for Youth Development

### Horticulture - Flowers Project Brief

#### Learning Objectives

- Learn about plant parts and their functions
- Plant a dish or "yardstick" garden
- Make soil in a bottle
- Learn what happens to plants as they grow and development
- Learn how to grow transplants
- Make a compost pile and plant a garden
- Learn landscaping basics
- Perform horticulture experiments
- Learn about the horticulture business and careers

#### Fair Projects

- House plant
- Landscaping plan
- Flower arrangement
- Poster identifying parts of a flower and their functions
- Scrapbook of your flower garden
- Photos of some of your favorite flowers or gardens
- Educational display on the different types of potting soil
- Outdoor flower garden plan
- Display on forcing bulbs

#### Demonstration Ideas

- Selecting planter plates
- Testing seeds for germination
- Taking a soil sample
- Cleaning and adjusting a sprayer
- Testing weight of grain
- Testing moisture content of grain
- Weed seed and plant identification
- Taking and interpreting a soil test
- Life cycle of a plant
- Parts of a seed
- Parts of a flower
- Transplanting
- Care of tools
- How to protect trees against rabbits

#### Field Trips

- Local Greenhouse
- Garden center
- Florist
- Floral distributor
- St. Louis Flower Market

#### Ideas for Speech Topics

- Annual or perennial
- Keeping flower beds vibrant
- Cut flowers as a money making project
- Shade or sun, what varieties work best

#### Critical Thinking

- Why do scientists need creative skills in addition to their scientific knowledge?
- By participating in various activities in the horticulture project, how have your planning skills changed?
- Why is decision making sometimes harder in a group of people?
- What kind of presentation helps you learn best?
- How will public speaking skills help you at school, home, or at a job?
- How can analyzing advertisements help you make better buying decisions?

#### Community Service

- Develop a community flower garden
- Build and plant flowers in flower boxes for local nursing homes
- Assist younger members in developing a flower garden or planter

#### Science & Technology

How have you used science and technology in this project area?

Examples:

- Learning the different parts of a flower and their functions
- Soil testing and preparation
- Identification of plant diseases and their cures
- Optimize your space for flower gardens
- Compare and contrast different mulch

## Show Me Character

**Trustworthiness** - includes honesty, promise keeping and loyalty.

- Always be honest with your project leader
- If someone asks if you have taken care of your garden - weeding, hoeing and watering - tell them the truth
- It's OK to have family members help; it makes the project more fun!

**Respect** - includes courtesy and proper treatment of people and things.

- Remember that you chose this project; you have the responsibility to grow the best product possible
- Are others counting on you? If you have promised someone flowers, remember to get it to them on time and in good condition

**Responsibility** - includes the pursuit of excellence, accountability and perseverance.

- Respect Mother Nature
- Provide proper nourishment to the soil by applying nutrients like fertilizer
- Utilize composting practices
- Understand that others may not enjoy every type of flower that you grow

**Fairness** - involves consistently applying rules and standards appropriately for different age groups and ability levels.

- Don't charge others unrealistically high prices for your product. Remember they are helping you by purchasing your flowers and telling you what you can improve
- Learn the rules of your local fairs and farmer's markets so you know what to expect when you enter and sell

**Caring** - promoting the well being of people and things in a young person's world. It denotes action and not just feelings. Share what you have grown with others

- Don't forget the birds and insects; they like to eat leftovers from your flowers and can help keep your garden healthy

**Citizenship** - includes making the home community and county a better place to live for themselves and others.

- Work to establish a community garden
- Be a good citizen by keeping your space neat and clean
- Don't use more than your share of the ground; remember you're not the only person or animal enjoying the earth
- Share what you know about insects; help others see the benefit of having them around

## Show Me Standards

Missouri 4-H members will acquire the knowledge and skills to gather, analyze and apply information and ideas, communicate effectively, recognize and solve problems, make decisions and act as responsible members of society.

4-H members will acquire a solid foundation which includes knowledge of:

- **Fine Arts** - principles and elements of different art forms.
- **Mathematics** - geometric and spatial sense involving measurement, trigonometry, and similarity and transformations of shapes.
- **Social Studies** - economic concepts (including productivity and the market system) and principles (including the laws of supply and demand.)

## Resources

### 961 Floriculture Level A

Y620 4-H Project Record  
Y 4413 4-H Business Start-Up Guide: Working with Plants  
Y9610 Floriculture Level A  
Y9600 Supplement CD

### 962 Floriculture Level B

Y620 4-H Project Record  
Y4413 4-H Business Start-Up Guide: Working with Plants  
Y9610 Floriculture Level B  
Y9600 Supplement CD

### 963 Floriculture Level C

Y620 4-H Project Record  
Y 4413 4-H Business Start-Up Guide: Working with Plants  
Y9610 Floriculture Level C  
Y9600 Supplement CD

### 964 Floriculture Level D

Y620 4-H Project Record  
Y4413 4-H Business Start-Up Guide: Working with Plants  
Y9610 Floriculture Level C  
Y9600 Supplement CD

University of Missouri Extension Guides are available for download at  
<http://extension.missouri.edu/main/DisplayCategory.aspx?C=35>

To Order

Extension Publications online at <http://extension.missouri.edu/explore/shop/> or by phone 1-800-292-0969

For additional resources check with your local University of Missouri Extension Center or the 4-H Source Book at <http://www.4-hmall.org>