

Seasonal Snapshot

PROGRAM OVERVIEW 2015



Objectives

MO Learning Standards for K-2:

- LO.1 - Fundamentals of living things.
- LO.2 - Life Processes
- ES.1 - Water and climate
- UN.2 - Effects of the sun and moon on the earth.

NGSS Standards for K-2:

- PS3.B -- Conservation of energy and energy transfer
- LS1.C -- Organization for matter and energy flow in organisms
- ESS2.D -- Weather and climate
- ESS3.B -- Natural hazards

About the Program

Designed for students in Kindergarten through 2nd Grade, the Seasonal Snapshot program invites children to explore the changes in weather that characterize our four seasons, and the effects these changes have on plants, animals and our own activities. During this program, students will:

- Discuss the four seasons (spring, summer, autumn and winter), why they occur, and what behaviors and weather we associate with each.
- Participate in the creation of a magnetic story scene (shown above), during which a given landscape changes with the seasons.
- Explore the Linnean House area in small groups led by one of our instructors to observe ways in which seasons impact the Missouri Botanical Garden's collections, practices and scientific study.
- Plant a seed to take home or to the classroom to observe as it grows.



What is Phenology?

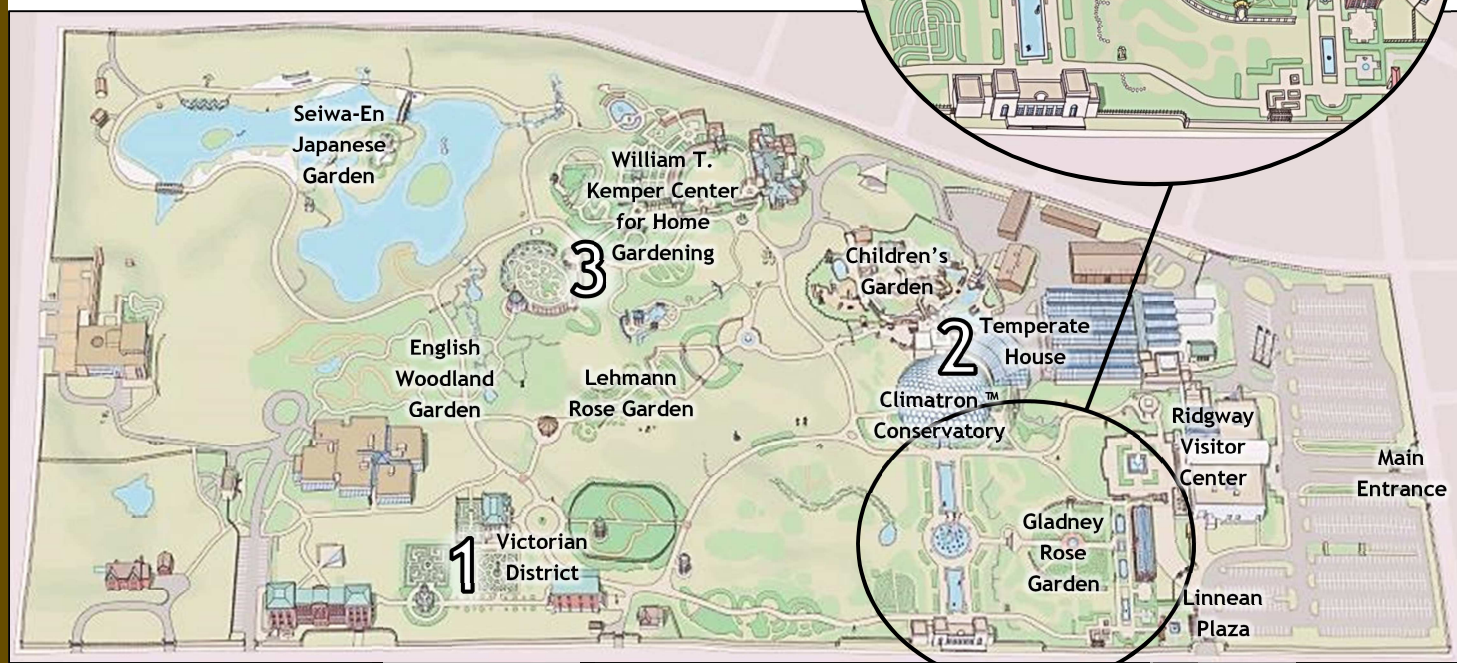
Phenology describes the study of life cycles and the timing of seasonal phenomena as they are observed throughout the year. Phenologists record the dates when flowers bloom, when trees produce their first spring leaves and turn color in the fall, the first sightings of migrating birds and insects, changes in plumage and behavior, and even the appearance of eggs and young. These data give scientists an idea of how year to year fluctuations in temperature and precipitation affect the plants and animals around us.

Phenology study is a great way to introduce observation and data collection to young students. Consider building upon the Seasonal Snapshot program by observing a tree or flowering plant in your school yard throughout the year.

This Program Features:

The Linnean House and Central Axis

The northeast region of the Missouri Botanical Garden includes the Linnean House, the Gladney Rose Garden, the Ottoman Garden, the Sensory Garden, the Bulb Gardens, Hosta gardens and the Central Axis. (Please note that the Climatron™ Conservatory is not included in this program.) These regions were selected to highlight those areas that exhibit seasonal changes and offer opportunities to discuss the strategies and practices used to design gardens and protect the health of our plants throughout the year.



Other Places to Explore...

Make the most of your visit by taking your students to explore the following areas after your program:

1. **The Victorian District** - Visit Henry Shaw's country home and experience what life was like in St. Louis during the mid-1800s. Then enjoy the Kaiser Maze and the ornate Victorian gardens.
2. **The Conservatories** - Walk through a tropical rainforest in the Climatron™ conservatory and explore the interactive exhibits in the Brookings Interpretive Center. Don't miss the bog and Moorish gardens in the Schoenberg Temperate House!
3. **The Kemper Center** - This 8-acre complex includes 23 demonstration gardens, including a vegetable garden, a bird garden, native gardens, gardens for butterflies and even a garden for children!

Logistics for Teachers

- ✿ Each Seasonal Snapshot program lasts **2 hours** and serves a maximum of **60 students**.
- ✿ Program fees include admission for up to six adults per 30 students. (Additional adults will be charged normal admission rates.) Please try to bring at least **one adult for every five students**.
- ✿ Groups booking this program may eat lunch in their assigned program space if they wish. (Please note that picnicking on the Garden's grounds is prohibited.)
- ✿ Program availability is limited! Book early!

For more information or to book this program, please visit www.mobot.org/schoolprograms or call the School Programs office at 314-577-5185.



MISSOURI BOTANICAL GARDEN

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