



# Project GROWS Garden Lessons

Project GROWS welcomes students from preschool to 12th grade to our farm. Although our current lesson options focus on kindergarten through 4th grade standards, our education staff is excited to collaborate with teachers to create personalized lessons to support other grade levels and other classroom topics.

## Plant Life Cycles & Parts of a Plant

*What are the stages of a plant's life through the seasons? What are the parts of a plant?*

In this lesson, students become familiar with the different changes that occur over time in various plants at Project GROWS and learn the purposes for each part of a plant (roots, stems, leaves, and flowers). By observing flowering plants, crops, and other vegetation on the farm at the different stages in their life cycles, students gain an understanding of how farmers participate in this process to grow food.



Meets SOLs: K.7, K.9, 1.4, 1.7, 2.4, 3.8, 4.4



## Earth Patterns, Cycles, and Change

*How are plants affected by changes in their environment?*

In this lesson, students explore weather conditions such as temperature, light, and rain and their potential impact on plants. By acting out the behavior of plants in varying conditions, students learn the impact of seasonal and daily changes, and how farmers manage these changes using structures like greenhouses and high tunnels. We'll also touch on the importance of water conservation throughout the seasons of the year by exploring irrigation practices on the farm.

Meets SOLs: K.9, 1.7, 2.7, 3.8, 3.9





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## **Soil & Compost**

*Why is soil so important to life at Project GROWS? What makes up our soils?*

In this lesson, students discover how soil provides nutrients for plants and supports animal and human life. By comparing soil from different locations on the farm and adding to Project GROWS' composting system, students learn soil components, the recipe for compost, the ways compost is used on the farm, and how students can participate in the conservation of resources at home to benefit our environment.



Meets SOLs: 3.7, 4.9