A Little Sprout





Driving Question 2 How do plants use their parts to grow and survive?



OVERVIEW

Spark	8 min	Students reflect on what they learned in the previous lesson, and watch a video showing what plants need to grow.		
Investigate	15 min	Students learn how to preview a text, listen to a read-aloud about what seedlings need to grow, and observe a pea seedling uprooted by the teacher.		
Report	5 min	Students record data about the seedling roots in the class notebook.		
Connect	7 min	Students listen to a reading of a poem about a seed growing into a seedling.		
Reflect	5 min	Students complete the Pre-Exploration about plants and what they need to grow and survive.		

STANDARDS

NGSS



LS1.A Structure and Function

LS1.B Growth and Development of Organisms

LS3.A Inheritance of Traits



SEP-3 Planning and Carrying Out Investigations

SEP-4 Analyzing and Interpreting Data

SEP-8 Obtaining, Evaluating, and Communicating Information



CCC-6 Structure and Function

3-D LEARNING OBJECTIVES

- Obtain information about the function of seeds and how plants grow by listening to a story, watching a video, and
- Record gathered information in a chart.

CROSS-CURRICULAR CONNECTIONS



Principle III Natural Systems Change in Ways that People Benefit from and can Influence



RI.1.1 Key Ideas and Details

RI.1.3 Key Ideas and Details

RI.1.7 Integration of Knowledge and Ideas

W.1.7 Research to Build and Present Knowledge

SL.1.2 Comprehension and Collaboration

L.1.4 Vocabulary Acquisition and Use

Students will:

- Make and record observations about roots
- class discussion

1.MD.A.2 Measure lengths indirectly and by iterating length units



Standard 1: Social and Instructional Language (Listening)

Standard 3: The Language of Mathematics (Reading, Writing)

Standard 4: The Language of Science (Listening)

RESOURCES

Digital

- Family Outreach Letter 2
- What Do Plants Need? video
- Plant a Seed Poem visual
- Plant Parts Progress Tracker

Teacher

- In kit: Magnifying glass (optional)
- Pea seedlings planted in Driving Question 1, Lesson 1

Additional Resources

 Use our recommended trade book, How a Seed Grows by Helene J. Jordan, illustrated by Loretta Krupinski, or replace with your own





LESSON PREPARATION

- Read through How a Seed Grows to preview the vocabulary and become familiar with the information about planting seeds. As you read, mark places for discussion and think about the suggestions for scaffolding. Alternatively, use our model with a book of your choice.
- Create a Root Observation Chart in the class notebook:

Root Observation Chart						
Age	Picture	Description	Root Length	Leaves		

Print the Family Outreach Letter 2 (1 per student) and give to students at the beginning of class. You may also email a copy to parents or guardians. This letter suggests ways families can explore plants and plant parts with their students in their home and around their neighborhood. It also introduces the Daylight Data Study students will conduct throughout the year, and provides instructions for families to help students record data in the Daylight Data handout once a month.

Word Wall

- grow
- survive
- surviving
- sunlight
- air
- water soil
- roots
- stem
- leaves
- sprout