

WEEK 6 Lesson 1

Science and Engineering: Growing Seasons
 Children explore and discuss the changing seasons.

S & E Big Ideas	In Maine, we have a growing season. Plants need certain elements to grow which are not present in each season we experience in the Northeast. Places with warmer climates have longer growing seasons.
S & E Guiding Question	Why don't plants grow in the winter? What does plant growth look like in each season? Why do warmer climates have longer growing seasons?
Content Objective	I can use what I know about the climate in Maine to discuss the different seasons (1-ESS1-1, 1-ESS1-2)
Vocabulary	<p>crops: groups of plants that are grown on a farm</p> <p>climate: the temperatures in a location</p> <p>season: winter, spring, summer, fall-the environmental and weather changes that happen at certain times of the year.</p> <p>growing season: The time in which crops can be planted and grown.</p>
Materials and Preparation	<ul style="list-style-type: none"> ● Climate Map ● Changing Seasons, one per child Assemble books. ● Season Sort Cards, one set per child ● Here Come the Seasons song
Opening 5 minutes	<p style="text-align: center;"><i>Which season is it right now? How do you know?</i></p> <p>Invite responses. Explain that Maine has 4 seasons. With each season comes different weather because of the climate in our region. Show the climate map. Maine has a short growing season compared to places with warmer climates like Florida, California, and Texas.</p>
Investigation and Discussion 20 minutes	<p>Read the Changing Seasons text, together as a whole group.</p> <p>Have the children complete the Season sort. They will cut and glue the cards into each season's row on the sort page.</p>

	As a whole group, contrast the weather and plant growth for each season.
Closing 5 minutes	Conclude with the lesson with the Here Comes the Seasons song.
Standards	1-ESS1-1 Use observations of the sun, moon, and stars to describe patterns that can be predicted. 1-ESS1-2 Make observations at different times of the year to relate the amount of daylight to the time of year.
Ongoing assessment	What do children understand about how plants grow?

Notes