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Universe, Earth, Environment (Earth Science)

Essential Question: How does change affect our daily life?

Enduring Knowledge	Science Concepts	GE	Evidence of Understanding
<p><u>Forces and Changes on the Earth's Surface:</u> The universe, earth and all earth systems have undergone change in the past, continue to change in the present and predicted to continue changing in the future.</p>	<p>a. Change is something that happens to many things.</p>	47	Creating categories of “things that change” and keeping a record of them over the school year
<p><u>Atmosphere, Water Cycle, Weather, Seasons:</u> The universe, earth and all earth systems have undergone change in the past, continue to change in the present and predicted to continue changing in the future.</p>	<p>a. The sun provides the light and heat necessary to maintain the temperature of the earth. b. There are cyclical changes that we see throughout the seasons that can be observed and recorded.</p>	48	Observing and recording weather data through the seasons and identifying and drawing conclusions based on the patterns in the data collected

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Focusing Questions	Potential Inquiries/Activities	Resources/Notes
<p>How do things change?</p> <ul style="list-style-type: none">- Things change in a variety of ways.- The rate of change varies.- Examples of change: our height, weight, number of teeth; the seasons; air temperature; family size; class size, etc.	<p>Brainstorm changes that occur in a first grader's life. (e.g., Height, teeth, family size, class size, weather, seasons, holidays, growing seasons). Categorize things that change (e.g., things that grow, things that get used up, things that break/break down).</p>	
<p>What affects seasonal change?</p> <ul style="list-style-type: none">- The Sun is the earth's source of light and heat.- Temperature is a measure of the earth's heat.- The earth has four seasons with distinct characteristics.- The characteristics of seasons are different, depending upon location.- Seasons occur in a yearly repeating cycle.- Temperature changes between seasons are gradual.- Patterns exist in weather and temperature within each season.	<p>How does weather change through the seasons? Record weather with graphs to analyze patterns of change.</p>	