

Prince George County Public Schools Kindergarten Science Pacing Guide

SOLs should be taught so that each student will have mastered that particular SOL by the end of the nine week period. The skills listed in each nine weeks will be assessed unless designated as Introduced or Not Tested.

First Nine Weeks	First Nine Weeks			
<p>The student will...</p> <p>K.1... conduct investigations in which</p> <ol style="list-style-type: none"> a) basic properties of objects are identified by direct observation; b) observations are made from multiple positions to achieve different perspectives; c) a set of objects is sequenced according to size; d) a set of objects is separated into two groups based on a single physical attribute; f) observations and predictions are made for an unseen member in a sequence of objects; g) a question is developed and predictions are made from one or more observations; i) an unseen member in a sequence of objects is predicted; j) unusual or unexpected results in an activity are recognized k) objects are described both pictorially and verbally; <p>K.1b, 1f, 1g, 1j, 1k ► Introduced – NOT Tested</p> <p>K.2...investigate and understand that humans have senses that allow them to seek, find, take in, and react or respond to information in order to learn about their surroundings. Key concepts include</p> <ol style="list-style-type: none"> a) five senses and corresponding sensing organ (taste – tongue, touch – skin, smell – nose, hearing- ears, and sight – eyes); and b) sensory descriptors used to describe common objects and phenomena. (taste: sweet, sour, bitter, salty; touch: rough/smooth, hard/soft, cold, warm, hot; hearing: loud/soft, high/low, bright/dull; smell: strong, faint, bad, good) <p>K.4... investigate and understand that the position, motion, and physical properties of an object can be described. Key concepts include</p> <ol style="list-style-type: none"> a) colors (red, orange, yellow, green, blue, purple, white, and black) b) shapes (circle, triangle, square, and rectangle) and forms (flexible/stiff, straight/curved); c) textures (rough/smooth) and feel (hard/soft); d) relative size and weight (big/little, large/small, heavy/light, wide/thin, long/short); and e) relative position (over/under, in/out, above/below, left/right) and speed (fast/slow). 	<p>The student will...</p> <p>K.9...investigate and understand that there are simple repeating patterns in his/her daily life. Key concepts include</p> <ol style="list-style-type: none"> a) weather observations; b) the shapes and forms of many common natural objects including seeds, cones, and leaves; and c) animal and plant growth; <p>K.9 Introduced ► NOT Tested</p> <p>K.10...investigate and understand that change occurs over time and rates may be fast or slow. Key concepts include</p> <ol style="list-style-type: none"> a) natural and human-made things may change over time; b) changes can be observed and measured <p>K.10 Introduced ► NOT Tested</p> <tr style="background-color: #cccccc;"> <th colspan="2" style="text-align: center;">Second Nine Weeks</th> </tr> <td style="vertical-align: top; padding: 5px;"> <p>The student will...</p> <p>K.1... conduct investigations in which</p> <ol style="list-style-type: none"> b) observations are made from multiple positions to achieve different perspectives; f) an unseen member in a sequence of objects is predicted g) a question is developed from one or more observations about the natural world; j) unusual or unexpected results in an activity are recognized k) objects are described both pictorially and verbally <p>K.1f, 1g, 1j, 1k ► NOT Tested</p> <p>K.5...investigate and understand that water flows and has properties that can be observed and tested. Key concepts include</p> <ol style="list-style-type: none"> a) water occurs in different phases (solid, liquid, gas); b) water flows downhill; c) some materials float in water, while others sink <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>K.9 K.10</p> <p>► Extend objectives from 1st nine weeks ► NOT TESTED</p> </div> </td>	Second Nine Weeks		<p>The student will...</p> <p>K.1... conduct investigations in which</p> <ol style="list-style-type: none"> b) observations are made from multiple positions to achieve different perspectives; f) an unseen member in a sequence of objects is predicted g) a question is developed from one or more observations about the natural world; j) unusual or unexpected results in an activity are recognized k) objects are described both pictorially and verbally <p>K.1f, 1g, 1j, 1k ► NOT Tested</p> <p>K.5...investigate and understand that water flows and has properties that can be observed and tested. Key concepts include</p> <ol style="list-style-type: none"> a) water occurs in different phases (solid, liquid, gas); b) water flows downhill; c) some materials float in water, while others sink <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>K.9 K.10</p> <p>► Extend objectives from 1st nine weeks ► NOT TESTED</p> </div>
Second Nine Weeks				

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Third Nine Weeks	Fourth Nine Weeks
<p><i>The student will...</i></p> <p>K.1... conduct investigations in which</p> <ul style="list-style-type: none"> f) an unseen member in a sequence of objects is predicted g) a question is developed from one or more observations about the natural world; j) unusual or unexpected results in an activity are recognized. k) objects are described both pictorially and verbally; <p>K.1f, 1g, 1j, 1k ► NOT Tested</p> <p>K.6...investigate and understand basic needs and life processes of plants and animals. Key concepts include</p> <ul style="list-style-type: none"> a) animals need adequate food, water, shelter, air, and space to survive; b) plants need nutrients, water, air, light, and a place to grow to survive; c) plants and animals change as they grow, have varied life cycles, and eventually die; d) offspring of plants and animals are similar but not identical to their parents and to one another <p>K.8...investigate and understand that shadows occur when light is blocked by an object. Key concepts include</p> <ul style="list-style-type: none"> a) shadows occur in nature when sunlight is blocked by an object; and b) shadows can be produced by blocking artificial light sources. <p>K.9...investigate and understand that there are simple patterns in his/her daily life. Key concepts include</p> <ul style="list-style-type: none"> c) animal and plant growth; <p>K.6...investigate and understand the differences between living organisms and nonliving objects. Key concepts include</p> <ul style="list-style-type: none"> a) all things can be classified as living or nonliving and b) living organisms have certain characteristics that distinguish them from nonliving objects including growth, movement, response to the environment, having offspring and the need for food, air and water <div style="border: 1px solid black; padding: 5px; margin-top: 10px; display: inline-block;"> <p>K.9a, b, d K.10</p> </div> <p style="margin-left: 20px;">Extend objectives from 1st & 2nd nine weeks ► NOT TESTED</p>	<p><i>The student will...</i></p> <p>K.1... conduct investigations in which</p> <ul style="list-style-type: none"> e) nonstandard units are used to measure common objects; f) an unseen member in a sequence of objects is predicted; g) a question is developed from one or more observations; h) observations are recorded i) picture graphs are constructed using 10 or fewer items; j) unusual or unexpected results in an activity are recognized k) objects are described both pictorially and verbally. <p>K.3...investigate and understand that magnets have an effect on some materials, make some things move without touching them, and have useful applications. Key concepts include</p> <ul style="list-style-type: none"> a) magnetism and its effects b) useful applications of magnetism <p>K.11...investigate and understand that materials can be reused, recycled, and conserved. Key concepts include</p> <ul style="list-style-type: none"> a) materials and objects can be used over and over again; b) everyday materials can be recycled; and c) water and energy conservation at home and in school helps preserve resources for future use. <p>K.9...investigate and understand that there are simple patterns in his/her daily life. Key concepts include</p> <ul style="list-style-type: none"> a) weather observations; b) the shapes and forms of many common natural objects including seeds, cones, and leaves; c) animal and plant growth; and d) home and school routines. <p>K.10...investigate and understand that change occurs over time and rates may be fast or slow. Key concepts include</p> <ul style="list-style-type: none"> a) natural and human-made things may change over time; b) changes can be noted and measured