

PLT Correlations: SCIENCE GRADE K (revised 8/09)

Kindergarten : Embedded Inquiry

Learning Expectations	PLT Correlations
<p>GLE 0007.Inq.1 Observe the world of familiar objects using the senses and tools.</p> <p>GLE 0007.Inq.2 Ask questions, make logical predictions, plan investigations, and represent data.</p> <p>GLE 0007.Inq.3 Explain the data from an investigation.</p>	<p>1. The Shape of Things (p.17) - In Part B, students take a walk and look for their assigned shapes.</p> <p>2. Get in Touch With Trees (p.20) - Students compare different trees and tree parts using their sense of touch.</p> <p>3. Peppermint Beetle (p.23) - Students experience scent-marking and consider its benefit to animals.</p> <p>4. Sounds Around (p.26) - In Part A, students listen to and imitate sounds, comparing their loudness.</p> <p>20. Environmental Exchange Box (p.92) - By exchanging boxes with classes in other regions, students compare the other regions to their own.</p> <p>21. Adopt a Tree (p.97) - In Part A, students compare their “adopted tree” to other trees.</p> <p>22. Trees as Habitats (p.102) - Students inventory the plants and animals that live in, on, and around trees and discover how plants and animals depend on trees in many ways.</p> <p>24. Nature's Recyclers (p.108) - Students devise an experiment to investigate the eating habits of pill bugs or earthworms.</p> <p>25. Birds and Worms (p.111) - Students pretend to be birds in search of colored worms or bugs. As an Enrichment, they compare results for different “backgrounds”.</p> <p>37. Reduce, Reuse, Recycle (p.159) – Students plan and conduct a service learning project, and in doing so find ways to cut down on the waste they produce and improve how waste is managed in their community.</p> <p>41. How Plants Grow (p.179) - In the Variation, students grow, measure, and compare plants growing with versus without light, water, soil, or space.</p> <p>43. Have Seeds, Will Travel (p.185) - Students observe, collect, and classify seeds according to their likely means of dispersal. In the Enrichment, they modify dried lima beans to allow various types of dispersal.</p> <p>46. Schoolyard Safari (p.197) - Students go on a safari to explore a nearby habitat – the school yard – while looking for signs of animals living there.</p> <p>47. Are Vacant Lots Vacant? (p.200) - Students stake out a “plot” and inventory the plant and animal life within the plot. In the Variation, students use hand lenses to closely observe plants and tiny animals along a 3-foot piece of string or within the area defined by a coat hanger stretched into a circle.</p>

	<p>48. Field, Forest and Stream (p.203) - Students work in teams to investigate and record observations of both living and non-living components of three different study sites. In the Variation, students work in pairs to place “most” and “least” markers within a designated study site to locate extremes of light, moisture, temperature, wind, plant life, and animal life.</p> <p>54. I'd Like To Visit a Place Where ... (p.236) - By working on a service learning project to improve a local park, students will also learn about the community’s system for managing open spaces.</p> <p>61. The Closer You Look (p.263) - Students carefully examine tree features and parts.</p> <p>64. Looking at Leaves (p.273) - Students explore leaf attributes such as color, shape, size, and bilateral symmetry through careful observation and various “leaf art” activities.</p> <p>67. How Big Is Your Tree? (p.284) - Students use string or “hand-spans” to measure the distance around a tree trunk or join arms to reach around larger trunks.</p> <p>70. Soil Stories (p.297) - In Part A, students use a “Soil Shake” test to separate the components of soil by their particle size. In Part B, students use a “Percolation Test” to test how well soils in different outdoor locations drain water.</p> <p>78. Signs of Fall (p.299) - In Part A, students observe and record “signs of fall” in a wooded area. In Part B, they use a “paper chromatography” process to separate the pigments in leaves.</p> <p>95. Did You Notice? (p.414) - Students study changes in their local environment over short and long periods to identify patterns of change.</p>
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Kindergarten : Embedded Technology & Engineering		
Learning Expectations	Checks for Understanding	PLT Correlations
<p>GLE 0007.T/E.K-2.1 Recognize that both natural materials and human-made tools have specific characteristics that determine their use.</p> <p>GLE 0007.T/E.2 Apply engineering design and creative thinking to solve practical problems.</p>	<p>0007.T/E.1 Explain how simple tools are used to extend the senses, make life easier, and solve everyday problems.</p> <p>0007.T/E.2 Invent designs for simple products.</p> <p>0007.T/E.3 Use tools to measure materials and construct simple products.</p>	

Kindergarten : Standard 1 - Cells

Learning Expectations	Checks for Understanding	PLT Correlations
<p>GLE 0007.1.1 Recognize that many things are made of parts.</p>	<p>0007.1.1 Use puzzles to determine that there are many parts that make up a whole.</p> <p>0007.1.2 Use building blocks to create a whole from the parts.</p> <p>0007.1.3 Take apart an object and describe how the parts work together.</p>	<p>61. The Closer You Look (p. 263) 62. To Be a Tree (p. 265) 63. Tree Factory (p. 269)</p>

Kindergarten : Standard 2 - Interdependence

Learning Expectations	Checks for Understanding	PLT Correlations
<p>GLE 0007.2.1 Recognize that some things are living and some are not.</p>	<p>0007.2.1 Categorize objects or images of objects as living or non-living according to their characteristics.</p>	<p>20. Environmental Exchange Box (p.92) 21. Adopt a Tree (p.97) 22. Trees as Habitats (p.102) 49. Tropical Treehouse (p.207) 70. Soil Stories (p. 297)</p>
<p>GLE 0007.2.2 Know that people interact with their environment through their senses.</p>	<p>0007.2.2 Use the senses to investigate and describe an object.</p>	<p>1. The Shape of Things (p.17) 2. Get in Touch With Trees (p.20) 3. Peppermint Beetle (p.23) 4. Sounds Around (p.26) 21. Adopt a Tree (p.97) 54. I'd Like To Visit a Place Where ... (p.236)</p>

Kindergarten : Standard 3 - Flow of Matter and Energy

Learning Expectations	Checks for Understanding	PLT Correlations
<p>GLE 0007.3.1 Recognize that living things require water, food, and air.</p>	<p>0007.3.1 Observe plants and animals and make records of their similarities and differences.</p> <p>0007.3.2 Record information about the care, feeding, and maintenance of a living thing.</p>	<p>22. Trees as Habitats (p.102) 27. Every Tree For Itself (p.117) 41. How Plants Grow (p. 179) 48. Field, Forest and Stream (p.203) - plant life and animal life 63. Tree Factory (p. 269)</p>

Kindergarten : Standard 4 - Heredity

Learning Expectations	Checks for Understanding	PLT Correlations
<p>GLE 0007.4.1 Observe how plants and animals change as they grow.</p> <p>GLE 0007.4.2 Observe that offspring resemble their parents.</p>	<p>0007.4.1 Observe a plant to identify how it changes as it grows from a seed to the adult plant and record data using non-standard measurement devices.</p> <p>0007.4.2 Match pictures of seedlings to adult plants and a juvenile to the adult animal.</p>	<p>31. Plant a Tree (p.132) 41. How Plants Grow (p. 179) 43. Have Seeds, Will Travel (p.185) 67. How Big Is Your Tree? (p. 284) 78. Signs of Fall (p.299) 79. Tree Lifecycle (p.341) 95. Did You Notice? (p.414)</p>

Kindergarten : Standard 5 - Biodiversity and Change

Learning Expectations	Checks for Understanding	PLT Correlations
<p>GLE 0007.5.1 Compare the basic features of plants and animals.</p>	<p>0007.5.1 Use a variety of representations to describe similarities and differences among plants and animals.</p> <p>0007.5.2 Create a mural of an ecosystem and compare the characteristics of animals and plants within that environment.</p> <p>0007.5.3 Match pictures of animal and plant characteristics needed for survival to appropriate environments.</p>	<p>6. Picture This (p.34) 18. Tale of The Sun (p.86) 20. Environmental Exchange Box (p.92) 25. Birds and Worms (p.111) 43. Have Seeds, Will Travel (p.185) 46. Schoolyard Safari (p.197) 47. Are Vacant Lots Vacant? (p.200)</p>

Grade K: Standard 6 - Omitted

Kindergarten : Standard 7 – The Earth

Learning Expectations	Checks for Understanding	PLT Correlations
<p>GLE 0007.7.1 Identify non-living materials found on the surface of the earth.</p>	<p>0007.7.1 Identify non-living materials found on the school site and discuss how these materials are similar and different.</p> <p>0007.7.2 Investigate and compare a variety of non-living materials using simple tools.</p>	<p>20. Environmental Exchange Box (p.92) 24. Nature's Recyclers (p.108) 37. Reduce, Reuse, Recycle (p.159) 48. Field, Forest and Stream (p.203) 70. Soil Stories (p. 297)</p>
<p>GLE 0007.7.2 Recognize that some objects are manmade and that some occur naturally.</p>	<p>0007.7.3 Observe familiar environments and make lists of natural and manmade objects.</p>	<p>37. Reduce, Reuse, Recycle (p.159)</p>

Kindergarten : Standard 8 - The Atmosphere

Learning Expectations	Checks for Understanding	PLT Correlations
<p>GLE 0007.8.2 Collect daily weather data at different times of the year.</p>	<p>0007.8.1 Collect, compare, and record daily weather data during different seasons.</p> <p>0007.8.2 Infer the relationship between temperature and seasonal change by maintaining a paper chain on which dates are recorded and temperature described according to different colors.</p>	<p>48. Field, Forest and Stream (p.203) – moisture and wind</p> <p>78. Signs of Fall (p.299)</p>

Kindergarten : Standard 9 - Matter

Learning Expectations	Checks for Understanding	PLT Correlations
<p>GLE 0007.9.1 Describe an object by its observable properties.</p>	<p>0007.9.1 Observe, identify, and compare the properties of various objects such as color, shape, and size.</p>	<p>1. The Shape of Things (p.17)</p> <p>13. We All Need Trees (p.65)</p> <p>20. Environmental Exchange Box (p.92)</p> <p>22. Trees as Habitats (p.102)</p> <p>37. Reduce, Reuse, Recycle (p.159)</p> <p>64. Looking at Leaves (p.273)</p> <p>70. Soil Stories (p. 297)</p> <p>78. Signs of Fall (p. 299)</p>
<p>GLE 0007.9.2 Identify objects and materials as solids or liquids.</p>	<p>0007.9.2 Observe, discuss, and compare characteristics of various solids and liquids.</p>	

Kindergarten : Standard 10 - Energy

Learning Expectations	Checks for Understanding	PLT Correlations
<p>GLE 0007.10.1 Identify the sun as the source of heat and light.</p>	<p>0007.10.1 Place a thermometer in a sunny window and one in a shady area of the classroom and record the temperatures over time. Compare, discuss, and record any temperature differences.</p> <p>0007.10.2 Investigate the temperature differences in various locations around the school. Discuss and record the results.</p>	<p>48. Field, Forest and Stream (p.203) – Light and Temperature</p>
<p>GLE 0007.10.2 Investigate the effect of the sun on a variety of materials.</p>	<p>0007.10.3 Place a thermometer under pieces of different colored paper on a sunny window. Compare results and discuss possible causes.</p>	