

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

Content Standard 1: Mathematical Processes

Learning Expectations	PLT Correlations
<p>GLE 0006.1.1 Use mathematical language, symbols, and definitions while developing mathematical reasoning.</p> <p>GLE 0006.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution.</p> <p>GLE 0006.1.3 Develop independent reasoning to communicate mathematical ideas and derive algorithms and/or formulas.</p> <p>GLE 0006.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies.</p> <p>GLE 0006.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.</p> <p>GLE 0006.1.6 Read and interpret the language of mathematics and use written/oral communication to express mathematical ideas precisely.</p> <p>GLE 0006.1.7 Recognize the historical development of mathematics, mathematics in context, and the connections between mathematics and the real world.</p> <p>GLE 0006.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.</p>	

Content Standard 2: Numbers and Operations

Learning Expectations	PLT Correlations
<p>GLE 0006.2.1 Count objects in a set and use numbers, including written numerals to 25.</p> <p>GLE 0006.2.2 Create, represent and recognize a set with a given number of objects.</p> <p>GLE 0006.2.3 Recognize, compare and order sets of numerals by using both cardinal and ordinal meanings.</p> <p>GLE 0006.2.4 Understand addition as “putting together” and subtraction as “breaking apart.”</p> <p>GLE 0006.2.5 Model the numbers 1 through 10 as sums or differences of different sets of whole numbers (composing and decomposing numbers).</p>	

Content Standard 3: Algebra

Learning Expectations	PLT Correlations
GLE 0006.3.1 Identify, duplicate, and extend simple number patterns and sequential and growing patterns.	
GLE 0006.3.2 Recognize attributes (such as color, shape, size) and patterns (such as repeated pairs, bilateral symmetry).	<p>1. The Shape of Things p.17 - In Part B, students take a walk and look for their assigned shapes.</p> <p>4. Sounds Around, p.26 - In Part A, students listen to and imitate sounds, comparing their loudness.</p> <p>6. Picture This! p.34 - In Part A, students sort pictures of plants and animals into groups.</p> <p>21. Adopt A Tree p.97 - In Part A, students compare their “adopted tree” to others.</p> <p>37. Reduce, Reuse, Recycle (p.159) – Students sort and quantify solid waste according to various attributes.</p> <p>64. Looking at Leaves, p.273 - Students explore leaf attributes such as color, shape, size, and bilateral symmetry.</p>
GLE 0006.3.3 Describe qualitative change.	

Content Standard 4: Geometry and Measurement

Learning Expectations	PLT Correlations
GLE 0006.4.1 Interpret and describe the physical world with geometric ideas and vocabulary.	<p>1. The Shape of Things p.17 - In Part B, students take a walk and look for their assigned shapes.</p> <p>64. Looking at Leaves, p.273 - Students explore leaf attributes such as shape, size, and bilateral symmetry.</p>
GLE 0006.4.2 Use positional terms to specify locations with simple relationships.	
GLE 0006.4.3 Compare and order measurable attributes of objects directly (by comparing them with each other) and indirectly (by comparing both with a third object).	<p>41. How Plants Grow, p.179 - In the Variation, students grow, measure, and compare two plants growing with versus without light, water, soil, or space.</p> <p>48. Field, Forest and Stream (p.203) - Students measure and compare light and temperature at various locations.</p> <p>67. How Big Is Your Tree?, p.284 - Students use string or “hand-spans” to measure the</p>

distance around a tree trunk or join arms to reach around larger trunks.

Content Standard 5: Data, Probability and Statistics

Learning Expectations	PLT Correlations
GLE 0006.5.1 Sort objects and use one or more attributes to solve problems.	<p>1. The Shape of Things, p.17 - In Part B, students take a walk and look for their assigned shapes.</p> <p>6. Picture This, p.34 - In Part A, students sort pictures of plants and animals into groups.</p> <p>13. We All Need Trees (p.65) - In Part A, students classify tree products as wood, food, or paper.</p> <p>16. Pass the Plants, Please, p.77 - In Part A, students sort plant-derived foods into plant-part categories.</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 organize their data into tables and graphs to summarize their findings.</p> <p>25. Birds and Worms, p.111 - Students gather and sort colored objects representing worms or bugs to discover the value of protective coloration.</p> <p>27. Every Tree for Itself, p.117 - Students gather and sort “tokens” by color to simulate competition by trees for soil resources.</p> <p>37. Reduce, Reuse, Recycle (p.159) – Students sort and quantify solid waste according to various attributes.</p> <p>47. Are Vacant Lots Vacant? (p.200) - Students sketch and tally the plants and animals they observe.</p> <p>64. Looking at Leaves, p.273 - Students explore leaf attributes such as color, shape, size, and bilateral symmetry.</p>
GLE 0006.5.2 Re-sort objects using new attributes.	<p>6. Picture This, p.34 - In Part B, students regroup pictures of plants and animals as though for a zoo or museum exhibit.</p>

