

PLT Correlations: MATH GRADE 1

Content Standard 1: Mathematical Processes

Learning Expectations	PLT Correlations
GLE 0106.1.1 Use mathematical language, symbols, and definitions while developing mathematical reasoning.	
GLE 0106.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution.	
GLE 0106.1.3 Develop independent reasoning to communicate mathematical ideas and derive algorithms and/or formulas.	
GLE 0106.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies.	
GLE 0106.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.	
GLE 0106.1.6 Read and interpret the language of mathematics and use written/oral communication to express mathematical ideas precisely.	
GLE 0106.1.7 Recognize the historical development of mathematics, mathematics in context, and the connections between mathematics and the real world.	
GLE 0106.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.	

Content Standard 2: Number and Operations

Learning Expectations	PLT Correlations
GLE 0106.2.1 Understand and use number notation and place value to 100.	
GLE 0106.2.2 Compare and order whole numbers to 100.	
GLE 0106.2.3 Develop strategies for learning basic addition facts and related subtraction facts.	
GLE 0106.2.4 Use multiple representations (including groups of ten) to model two-digit addition and subtraction.	

Content Standard 3: Algebra

Learning Expectations	PLT Correlations
GLE 0106.3.1 Identify, describe, and extend simple number patterns to develop strategies for adding and subtracting whole numbers.	
GLE 0106.3.2 Understand that addition and subtraction are inverse operations.	
GLE 0106.3.3 Extend the strategies for basic facts to include other properties of number and operations.	

Content Standard 4: Geometry and Measurement

Learning Expectations	PLT Correlations
GLE 0106.4.1 Recognize, describe, and draw geometric figures. GLE 0106.4.2 Compose and decompose geometric shapes.	1. The Shape of Things, p.17 - In Part B, students take a walk and look for their assigned shapes.
GLE 0106.4.3 Use non-standard units in linear measurement.	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. 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.

Content Standard 5: Data, Probability and Statistics

Learning Expectations	PLT Correlations
GLE 0106.5.1 Use various representations to display and compare data.	<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>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>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>47. Are Vacant Lots Vacant? (p.200) - Students sketch and tally the plants and animals they observe.</p> <p>48. Field, Forest and Stream (p.203) - Students measure and compare light, moisture, temperature, and wind at various locations.</p> <p>64 Looking at Leaves, p.273 - Students explore leaf attributes such as color, shape, size, and bilateral symmetry.</p>

