

WILD Correlations: MATH GRADE 5

Content Standard 1: Mathematical Processes	
Learning Expectations	Project WILD (W) and Aquatic WILD (AW) Correlations
<p>GLE 0506.1.1 Use mathematical language, symbols, and definitions while developing mathematical reasoning.</p> <p>GLE 0506.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution.</p> <p>GLE 0506.1.3 Develop independent reasoning to communicate mathematical ideas and derive algorithms and/or formulas.</p> <p>GLE 0506.1.4 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 0506.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.</p>	<p>Alice in Waterland, AW151 - Students gather data on their daily water use for 5 days. They implement water conservation and gather another set of data to compare results.</p> <p>Checks and Balances, W387 - Teams track herd size based on the series of imaginary events that occur over time.</p> <p>How Many Bears Can Live in This Forest?, W23 - Students collect “food tokens” and tally the amounts of foods of various types they collect, determining how bear survival is affected by food abundance and other factors.</p> <p>Litter We Know, W434 - Students assign a relative value to each piece of litter in a collection and tally the total “score” for the collection.</p>

	<p>Lobster in Your Lunchbox, W245 - Students calculate the cost of a family's meals for one day. They classify the food sources as plant or animal-derived, and as from wild or domesticated sources.</p> <p>Water's Going On?, AW149 - Students estimate and calculate water consumption.</p> <p>What's in the Air?, AW136 - Students graph data and compare results for different vinegar treatments.</p> <p>What's in the Water?, AW140 - Students graph the quantities of pollutants in a hypothetical water sample.</p> <p>Where Have All the Salmon Gone?, AW180 - Students graph and interpret actual fish population data in relation to historical events.</p>
GLE 0506.1.6	Read and interpret the language of mathematics and use written/oral communication to express mathematical ideas precisely.
GLE 0506.1.7	Recognize the historical development of mathematics, mathematics in context, and the connections between mathematics and the real world.
GLE 0506.1.8	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	Project WILD (W) and Aquatic WILD (AW) Correlations
GLE 0506.2.1	Extend the understanding of place value through millions and millionths in various contexts and representations.

GLE 0506.2.2	Write natural numbers (to 50) as a product of prime factors and understand that this is unique (apart from order).	
GLE 0506.2.3	Develop fluency with division of whole numbers. Understand the relationship of divisor, dividend, and quotient in terms of multiplication and division.	
GLE 0506.2.4	Develop fluency with addition and subtraction of proper and improper fractions and mixed numbers; explain and model the algorithm.	
GLE 0506.2.5	Develop fluency in solving multi-step problems using whole numbers, fractions, mixed numbers, and decimals.	

Content Standard 3: Algebra		
Learning Expectations	Project WILD (W) and Aquatic WILD (AW) Correlations	
GLE 0506.3.1	Understand and use order of operations.	
GLE 0506.3.2	Develop and apply the concept of variable.	
GLE 0506.3.3	Understand and apply the substitution property.	
GLE 0506.3.4	Solve single-step linear equations and inequalities.	

Content Standard 4: Geometry and Measurement

Learning Expectations	Project WILD (W) and Aquatic WILD (AW) Correlations
GLE 0506.4.1 Use basic formulas and visualization to find the area of geometric figures.	Spider Web Geometry, W34 - Students apply principles of geometry to construct a replica of a spider's web.
GLE 0506.4.2 Describe polyhedral solids and analyze their properties, including volume and surface area.	
GLE 0506.4.3 Describe length/distance relationships using the first quadrant of the coordinate system.	Whale of a Tail, AW10 - Students use computational, graphing, and measuring techniques to draw or sculpture life-size replicas of whales.
GLE 0506.4.4 Solve problems that require attention to both approximation and precision of measurement.	

Content Standard 5: Data, Probability and Statistics

Learning Expectations	Project WILD (W) and Aquatic WILD (AW) Correlations
GLE 0506.5.1 Make, record, display and interpret data and graphs that include whole numbers, decimals, and fractions.	Bearly Growing, W19 - Students illustrate, compute, and graph differences between people and black bears at various stages of maturity. Oh Deer!, W36 - Students graphs fluctuations in population size over time. World Travelers, W330 - Students develop graphs or pie charts and maps depicting the proportions of exotic species of plants on their designated plots.
GLE 0506.5.2 Describe the shape and important features of a set of data using the measures of central tendency.	