

# WILD Correlations: MATH GRADE 4

Content Standard 1: Mathematical Processes	
Learning Expectations	Project WILD (W) and Aquatic WILD (AW) Correlations
<p>GLE 0406.1.1 Use mathematical language, symbols, and definitions while developing mathematical reasoning.</p> <p>GLE 0406.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution.</p> <p>GLE 0406.1.3 Develop independent reasoning to communicate mathematical ideas and derive algorithms and/or formulas.</p> <p>GLE 0406.1.4 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 0406.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.</p>	<p><b>Environmental Barometer, W77</b> - Students go outside to observe and count or to estimate wildlife in an area; they repeat the same procedures in another setting to compare findings and, as an option, make a school "environmental barometer."</p> <p><b>Fashion a Fish, AW56</b> - Students consider fish attributes and their effects on fish survival.</p>
<p>GLE 0406.1.6 Read and interpret the language of mathematics and use written/oral communication to express mathematical ideas precisely.</p> <p>GLE 0406.1.7 Recognize the historical development of mathematics, mathematics in context, and the connections between mathematics and the real world.</p>	

GLE 0406.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.	
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**Content Standard 2: Number and Operations**

<b>Learning Expectations</b>	<b>Project WILD (W) and Aquatic WILD (AW) Correlations</b>
GLE 0406.2.1 Understand place value of numbers from hundredths to the hundred-thousands place.	
GLE 0406.2.2 Develop fluency with multiplication and single-digit division.	
GLE 0406.2.3 Identify prime and composite numbers.	
GLE 0406.2.4 Understand and use the connections between fractions and decimals.	
GLE 0406.2.5 Add and subtract fractions with like and unlike denominators.	
GLE 0406.2.6 Solve problems involving whole numbers, fractions, and/or decimals using all four arithmetic operations.	

## Content Standard 3: Algebra

Learning Expectations	Project WILD (W) and Aquatic WILD (AW) Correlations
GLE 0406.3.1 Extend understanding of a variable to equations involving whole numbers, fractions, decimals, and/or mixed numbers.	
GLE 0406.3.2 Use mathematical language and modeling to develop descriptions, rules and extensions of patterns.	
GLE 0406.3.3 Translate between different forms of representations of whole number relationships.	

## Content Standard 4: Geometry and Measurement

Learning Expectations	Project WILD (W) and Aquatic WILD (AW) Correlations
GLE 0406.4.1 Understand and use the properties of lines, segments, angles, polygons, and circles.	
GLE 0406.4.2 Understand and use measures of length, area, capacity, and weight.	
GLE 0406.4.3 Solve problems that involve estimating and measuring length, area, capacity and weight.	
GLE 0406.4.4 Understand the representation of location and movement within the first quadrant of a coordinate system.	

## Content Standard 5: Data, Probability and Statistics

Learning Expectations	Project WILD (W) and Aquatic WILD (AW) Correlations
GLE 0406.5.1 Collect, record, arrange, present, and interpret data using tables and various representations.	<p><b>Plastic Jellyfish, AW128</b> – Students explore the problems in trying to recover spilled plastic pellets, graph the data, and consider the effects of unrecovered pellets (Steps 3-10)</p> <p><b>Water We Eating?, AW83</b> – As an Extension, students classify food products by aquatic habitats or compare aquatic products in typical American supermarkets to those in ethnic markets.</p>
GLE 0406.5.2 Use probability to describe chance events.	