

Lake Washington School District
Teaching and Learning Framework

Fifth Grade

Mathematics

Power Standards | August 2007

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Number Sense

Power Standards	Evidence of Learning
1. Understand the concepts of fractions and decimals by:	Creating a model when given a symbolic representation or writing the fraction or decimal when given a model. (1.1.1)
2. Understand the relative values of non-negative fractions or decimals by:	Comparing, ordering, or illustrating them using concrete models (e.g., number lines, shaded grid) or implementing strategies. (e.g., like denominators, benchmarks, conversions) (1.1.2)
3. Understand and apply the concept of divisibility by:	Solving problems related to primes, factors, multiples, and composites in a variety of situations. (e.g., find a mystery number, find unit pricing, increase or decrease a recipe, find portions for a group) (1.1.3)
4. Understand and explain addition and subtraction of non-negative decimals and fractions by:	Using words, symbols, or other models. (e.g., fractions with denominators 2, 4, 8 or 2, 3, 6, 12 or 5, 10) (1.1.5)

Measurement

Power Standards	Evidence of Learning
1. Understand the concept of angle measurement by:	Classifying or sorting angles as right, acute or obtuse in polygons. (1.2.1)
2. Understand degrees as units of measurement for angles by:	Identifying, drawing or demonstrating angles that match or approximate 30° , 45° , 60° , 90° , and 180° using a variety of tools. (turtle turner, geo-logo, angle rulers) (1.2.2)
3. Understand how measurement units of capacity, weight, and length are organized in the metric system by:	Explaining and giving examples of metric system standard units for each. (1.2.3)
4. Understand and apply systematic procedures (e.g., square units, formulas) to determine areas of rectangles and right triangles and make appropriate comparisons. (1.2.4)	

Geometric Sense

Power Standards	Evidence of Learning
1. Understand the properties of angles and polygons by:	Identifying, sorting, classifying, or explaining the properties based on their attributes. (e.g., triangles: right, isosceles, scalene; angles: acute, right, obtuse; quadrilaterals: squares, rectangles) (1.3.1)
2. Apply understanding of the properties of parallel, perpendicular, and symmetry of two dimensional shapes by:	Drawing and labeling a design that includes a given set of attributes. (1.3.2)

Probability and Statistics

Power Standards

1. Understand, apply and explain how to determine the mean, median, and mode of a given set of data. (1.4.4)

Evidence of Learning

2. Apply strategies to organize, display, and interpret data by:

Constructing assorted graphs that include labels, appropriate scale, and key. (1.4.5)

Algebraic Sense

Power Standards

1. Understand patterns and relationships between two sets of numbers based on a single arithmetic operation by:

Evidence of Learning

Changing one set of numbers into another set of numbers. (e.g., 1, 2, 3...becomes 5, 10, 15...one rule is to multiply each number in the first set by 5) (1.5.1)

2. Apply understanding of mathematical inequality by:

Expressing relationships between quantities using \neq , \leq , \geq . (1.5.3)

3. Understand and apply multiplication and division strategies to solve equations by:

Using and describing algebraic strategies to solve an equation. (e.g., $7 \times \square = 42$; $42 \div \square = 7$) (1.5.6)