

Math Word Wall for Phalen Lake Elementary

Listed below are words identified that are to be **explicitly taught** within each grade level. It is expected that these words will be a central focus of your math word wall/vocabulary journal, and that students leave a grade level understanding and able to give examples of these words. Grade level representatives on the 2010 math committee were committed to the year-long process of completing this activity in an effort to help our students build a stronger foundation within math. Our process was guided via the resource: Building Academic Vocabulary: Teacher's Manual written by Robert J. Marzano and Debra J. Pickering (2005). The math committee looked at the math standards for each grade level and the MCA specifications to determine critical words.

Explicitly taught = a highlighted focus on the math word wall, time spent during lessons teaching/learning the words, some type of accountable record for students (math dictionary, journal, etc).

Unit	K	1 st	2 nd	3 rd	4 th	5 th	6 th
Number Sense and Operations	add subtract	equal fewer more less greater sum difference tally mark bar graph	digit value least greatest compare fraction	plot locate point estimate round nearest closest compare order sum result multiply product divide	factor operation strategy solve quotient divisor dividend equivalent represent numerator denominator improper fraction mixed numbers compare decimal	remainder place value x-axis y-axis, horizontal axis vertical axis coordinate grid	Integer rational number percent ratio prime factor prime factorization exponent power base greatest common factor least common multiple rate

Unit	K	1 st	2 nd	3 rd	4 th	5 th	6 th
Algebra	pattern (extend)	Extend number sentence number line rule	unknown (variable) array	input output value equation represent	variable	ordered pair graph expression inequality order of operations	evaluate translate function simplify reasonable

Unit	K	1st	2nd	3rd	4th	5th	6th
Data Analysis and Probability				Pictograph chart, line plot table data title label key represent	timeline Venn diagram survey	mean median range minimum maximum double-bar graph line graph	Probability, outcome, tree diagram, event, random, sample space, combinations, likely, unlikely, certain, impossible, theoretical, frequency, relative frequency, experimental, predict

Unit	K	1st	2nd	3rd	4th	5th	6th
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Geometry and Measurement	shape, square, circle, triangle, rectangle, trapezoid, hexagon, cube, cone, cylinder, sphere length weight attribute	symmetry, polygon side corner face rectangular prism nickel penny dime dollar hour half-hour	Vertices (corner) edges a.m. p.m. centimeter inch ruler quarter \$ quarter-hour	parallel perpendicular right figure angles perimeter width parallelogram rhombus pentagon octagon tool yardstick meter stick tape measure unit thermometer temperature degrees increase decrease	Vertex, congruent, quadrilateral kite area translation reflection rotation symmetry transformation image vertical horizontal clockwise counterclockwise	prism net pyramid three- dimensional triangular rectangular formula surface area volume base height	Intersecting vertical adjacent complementary supplementary straight hypotenuse leg interior exterior diagonal customary metric capacity
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