

OKLAHOMA STATE DEPARTMENT OF EDUCATION VOCABULARY FOR MATHEMATICS

5/21/2009

KINDERGARTEN	1 ST GRADE
above add behind below beside between calendar circle clock compare count fifth first fourth graph hour left length measure money number on over pattern rectangle right second shapes sort – same/different square subtract third time triangle under zero	addition angle backward/forward chart congruent describe digit direction equal even explain foot greater than guess half hour inch increasing pattern less than list minus minute number line numeral odd order ordinal plus size solve subtraction tallies temperature value weight
2 ND GRADE	3 RD GRADE
addends classify decrease difference distance estimate fractions (halves, thirds, and fourths) gallon height hexagon hundreds increase model numeric pattern octagon ones pentagon	algorithm analog clock area array bar graph commutative property coordinates customary/standard measurement data denominator density digital clock division edge face factor grid

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<p>pint place value pound quart quarter hour regroup standard measures sum symmetry table tens thermometer volume whole number</p>	<p>horizontal input metric units (meter, centimeter, gram, kilogram) multiple multiplication number sentence numerator ordered pairs output perimeter pictograph probability product rounding three-dimensional two-dimensional vertex vertical</p>
<p>4TH GRADE</p>	<p>5TH GRADE</p>
<p>acute angle associative axis computation dividend divisor elapsed time equation equivalent expanded form (of a number) expression frequency table hundredths inequality symbols intersecting inverse operation line graph obtuse angle parallel perpendicular prediction quotient reasonable reflection right angle rotation rule standard form (of a number) tenths translation variable</p>	<p>balanced base composite deposit distributive property fair number cube greatest common factor (GCF) improper fractions least common denominator (LCD) least common multiples (LCM) mean metric prefixes (milli, centi, kilo) mixed numbers percent plane prime proper fraction range ray straight angle thousandths Venn diagram withdraw</p>

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6 TH GRADE	7 TH GRADE
algebraic expression base number circumference complement convert coordinate plane diameter evaluate exponent factorization median mode non-terminating decimal numerical expression order of operations pi plane figure prime factor quadrilateral radius reciprocal sequences (arithmetic, geometric, Fibonacci) similarity simplify square units substitution supplement terminating decimal	absolute value acute triangle alternate interior/exterior angles bisector combinations corresponding angles discount equilateral triangle experimental probability exponential notation integer interest isosceles triangle negative obtuse triangle outcome parallelogram permutations polygon positive proportion quadrant radical sign rate ratio regular polygon rhombus right triangle scale factor scalene triangle square root theoretical probability transversal trapezoid unit rate vertical angle
8 TH GRADE	
adjacent angles coefficient constant distance formula: $d=rt$ domain formula hypotenuse lateral area legs of a triangle linear equation linear inequality Pythagorean theorem range of a function rational number scatter plot scientific notation slope-intercept form slope	solids (prisms, cones, cylinders, pyramids) standard form (of a linear equation) surface area term x-y intercepts

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ALGEBRA I	ALGEBRA II
absolute value function ascending/descending binomial degree of a polynomial difference of squares elimination method (for solving a system of equations) factor a polynomial function notation inequalities intercepts (x & y) irrational numbers line of best fit linear/nonlinear functions (exponential, quadratic, absolute value) linear systems literal equations monomial parent graph (linear, absolute value, quadratic, constant) polynomial quadratic equation quadratic formula rate of change rational expression real numbers relations substitution method (for solving a system of equations) trinomial	arithmetic/geometric sequences asymptotes completing the square complex numbers composition conic sections conjugate (complex) correlation curve of best fit delta discriminant functions (exponential, polynomial, logarithmic, etc.) imaginary inverse function logarithm matrix minimum/maximum (relative, absolute) normal distribution curve (Gaussian) parent function (exponential, polynomial, logarithmic) radical equation sigma standard deviation synthetic division three-dimensional coordinate transformation (algebraic) variance weighted averages zero of a function
GEOMETRY	
altitude angle of depression/elevation angle relationships (complementary, supplementary, etc., expressed algebraically) arc (measurement, length, major, minor) central angle chord conditional statements (converse, inverse, contrapositives) congruence conjecture construction (protractor, compass, straightedge) convex/concave corresponding parts counterexample deductive reasoning distance formula: $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ Euclidean/non-Euclidean Geometry inductive reasoning inscribed angles and polygons circumscribed	interior/exterior angles (of a figure) lateral surface area median of a triangle midpoint formula polyhedral proof (formal, paragraph, flow, algebraic) Pythagorean theorem – area model reflexive, symmetric and transitive properties secant line tangent line theorem/postulate/conjecture total surface area transformation (reflection, rotation, translation) trigonometric ratio (sine, cosine, tangent)