

Kindergarten Math Vocabulary CCSS

Words at a Glance:

Counting & Cardinality

Comparison: big, equal, more, between, less, before, after, opposite, small, compare

Counting: hundred, count forward, even, number, odd, numeral, quantity, small, big

Grouping: pair, table, add, equal, ten, one, count forward, tally, group

Money: coin, money, cent, penny, dime, quarter, count, dollar, nickel

Sequence: fourth, fourth, number line, sequence, order, tens, ones, even numbers, odd numbers

Algebraic Thinking

Operations & Algebraic Thinking: different, alike, input, output, sort, outside, object, match, size, similar

Base Ten Operations

Number & Operations in Base Ten: minus, value, behind, sum, above, difference, add, compare, zero, below, subtract, under, ones, tens, beside, between, addition, sort

Measurement & Data

Measurement & Data: measure, long, estimate, longest, shorter, small, size, big, short, biggest, today, time, minute, calendar, hour, second, yesterday, morning, afternoon, date, minute hand, first, second hand, hour hand, clock, year, equal parts, month, day, week

Geometry

Geometry: square, shapes, pattern, triangle, rectangle, cylinder, halves, cone, in front of, cube, inside, middle, sphere, corner, curves, slide, right, graph, circle, left

First Grade Math Vocabulary CCSS

Words at a Glance:

Algebraic Thinking

Operations & Algebraic Thinking: alike, similar, object, match, size, output, sort, input, different

Base Ten Operations

Number & Operations in Base Ten - Graphing/Units: data, non-standard unit, horizontal, vertical, standard unit, graph, estimate, symbol, sort, group

Number & Operations in Base Ten - Counting: skip-counting, count, numeral, even, odd, whole number, pattern, integer

Number & Operations in Base Ten - Comparison: compare, less, equal, near, less than, more than, half, opposite, before, after

Number & Operations in Base Ten - Sequence: order, number line, pattern, number, more, rule, less, sequence, sort

Number & Operations in Base Ten - Operations: solve, addition, total, add, numeral, subtraction, equals, operation, minus, less, more, number sentence, sum, subtract, plus, difference

Number & Operations in Base Ten - Place Value: half, place value, fourth, double, whole, tens, ones, digit

Number & Operations in Base Ten - Digits: digit, count, zero, ten, one, hundred, thousand, whole number, integer

Measurement & Data

Calendar: measure, length, foot, ruler, long, inch, foot, shorter, thermometer, temperature

Graphing: chart, picture graph, bar graph, input, measurement, table, data

Length/Temperature: month, calendar, day, week, year, leap year, season

Money: money, dollar, coin, cent, half-dollar, quarter, nickel, penny, dime, currency

Statistics: less likely, impossible, equally likely, tally, certain, equal parts, estimate, even, chance

Time: time, second, hour hand, minute, second hand, half-hour, clock, first, hour, minute hand

Weight/Volume: measure, gram, scales, cup, pint, quart, pound, size, balance, kilogram

Geometry

Description: size, longer, small, longest, smallest, intersect, characteristics, side, parallel, describe

Direction: corner, slide, curves, turn, right, above, below, left, direction, line

Location: location, in front of, between, under, inside, outside, behind, middle, over

Prisms: geometry, prism, line of symmetry, sphere, cylinder, cube, three dimensional, fourths, halves, cone

Shapes: geometry, rectangular, line of symmetry, circle, square, triangle, shape, rectangle, two dimensional, sides

Second Grade Math Vocabulary CCSS

Words at a Glance:

Algebraic Thinking

Operations & Algebraic Thinking: sort, alike, commutative property, expanded form, match, unknown, size, different, associative property, similar

Base Ten Operations

Number & Operations in Base Ten - Comparison: small, greatest, near, after, more than, smallest, equal, compare, whole number, integer

Number & Operations in Base Ten - Counting: count forward, number line, sequence, skip-counting, odd, pattern, numeral, even

Number & Operations in Base Ten - Grouping: group, regroup, estimate, rule, pattern, fact family, length, classification

Number & Operations in Base Ten - Numbers: hundred, one, ordinal number, zero, cardinal number, number line, ten, odd, even, sequence

Number & Operations in Base Ten - Operations: sum, addition, subtraction, difference, number sentence, minus, plus, solve, numeral, operation

Number & Operations in Base Ten - Place Value: tens, hundreds, fourths, halves, half, double, ones, thirds, digit, part

Measurement & Data

Calendar: date, day, week, calendar, month, event, leap year, season

Fractions: equivalent, extend, whole, equal parts, ones, tens, one-third, one-fourth, fraction, integer

Length: foot, temperature, thermometer, longest, centimeter, inch, meter, yard, length, degree

Money: coin, dollar, money, dime, nickel, quarter, penny, half-dollar, cent, currency

Showing Data: symbol, table, bar graph, interpret, pie chart, tally, picture graph, data

Statistics: estimate, survey, predict, unlikely, likely, equal, outcome, equally likely, impossible, certain

Time: time, second, minute hand, hour, elapsed time, quarter-hour, minute, hour hand, half-hour, second hand

Weight/Volume: gram, balance, cup, quart, pint, pound, kilogram, liter, size, ounce

Geometry

Classification: reflect, set, slide, rotate, measure, turn, angle, column

Description: right, rectangular, perimeter, distance, circular, corner, below, beside, above, left

Prisms: cube, cone, prism, cylinder, face, line of symmetry, dimensions, sphere, three dimensional

Shapes: pentagon, shape, sides, square, triangle, trapezoid, circle, rectangle, symmetry, polygon, parallelogram, plane shapes, hexagon, octagon, two-dimensional, line of symmetry, intersect, geometry, quadrilateral, parallel

Third Grade Math Vocabulary CCSS

Words at a Glance:

Algebraic Thinking

Operations & Algebraic Thinking: solution, range, inequality, domain, form, distributive, like denominator, expression, multiples, equation

Base Ten Operations

Number & Operations in Base Ten: regroup, place value, whole numbers, minuend, rounding, division, estimation, solution, addend, number line, subtraction, digit, product multiplier, addition, plus, minus, difference, sum, times

Fractions

Number & Operations - Fractions: divisor, numerator, factor, fraction, dividend, relative, whole number, quotient, denominator, rounding

Measurement & Data

Length: centimeter, area, length, height, mile, kilometer, temperature, perimeter, meter, width

Showing Data: tally chart, bar graph, data, input, interpret, pictograph, customary units, non-standard units, picture graph, table, symbol

Statistics: chance, reasonableness, median, data, input, outcome, combinations, mode, predict

Time/Temperature: thermometer, degrees, second, minute, clockwise, counterclockwise, temperature, elapsed time, hour, Celsius

Weight/Volume: gram, liter, weight, scale, metric, liquid measures, kilogram, ounce, capacity, volume

Geometry

Angles: obtuse angle, angle, acute angle, right angle, straight angle, vertex, perpendicular, reflection, congruent, degrees

Lines: side, coordinates, line graph, right angle, line of symmetry, intersecting lines, closed figure, line segment, perpendicular, degrees

Prisms: cube, cylinder, base, cone, face, sphere, prism, solid figure, dimensions, volume

Shapes: polygon, octagon, symmetry, congruent, translation, pentagon, hexagon, rhombus, parallelogram, area

Fourth Grade Math Vocabulary CCSS

Words at a Glance:

Algebraic Thinking

Operations & Algebraic Thinking: variable, inequality, equivalent, differences, factor, equation, product, comparison, expression, similarity, inequality, relationship, similarity, comparison, differences, factor, equation, variable, extraneous, equivalent

Base Ten Operations

Number & Operations in Base Ten: comparison, equation, relationship, equivalent, inequality, factor, rounding, regroup, variable, similarity, size, inverse operation, gram, calculate, compare, composite number, million, decimal number, simplify, relative, addend, product, symmetry, centimeter, fahrenheit, celsius, differences, polyhedron, extraneous, estimation

Fractions

Number & Operations - Fractions: proper fraction, percent, consecutive, common fraction, ordinal number, factor, multiples, improper fraction, mixed number, fraction, compare, dividend, denominator, remainder, divisor, quotient, more than, numerator, less than, equivalent

Measurement & Data

Units & Coordinates: y-axis, line graph, customary units, non-standard units, x-axis, coordinates, coordinate, system, data, unit conversion, unit

Length: meter, length, width, kilometer, measurement, inch, yard, centimeter, metric, foot

Problem Solving: probability, predict, array, survey, chance, likely, unlikely, certainty, data collection, tendency

Quantity/Size: volume, liter, ounce, pint, kilogram, weight, mass, quart, gallon, balance

Time/Temperature: Celsius, Fahrenheit, measurement, minute, second, event, degree, time, temperature, hour

Interpretation: mean, median, mode, range, likelihood, ordered pairs, statistics, interpret, graph, data

Presentation: tree diagram, pie chart, diagram, data, circle graph, Venn diagram, tally, bar graph, frequency table, measure

Geometry

Angles: congruent, acute angle, obtuse angle, rotate, straight angle, degrees, angle, right angle, triangle, perpendicular

Classification: similarity, translation, congruent, reflection, rectangular, symmetry, closed figure, open figure, rotation, transformation

Lines: intersection, perpendicular, length, line segment, circumference, point, distance, grid, side, line of symmetry

Measurement: square unit, area, capacity, degrees, distance, grid, radii, height, diameter, length

Polygons: polygon, pentagon, quadrilateral, hexagon, rhombus, pentagon, parallelogram, plane figure, octagon, polyhedron

Prisms: prism, base, face, solid, sphere, horizontal, parallel lines, cube, cylinder, cone

Fifth Grade Math Vocabulary CCSS

Words at a Glance:

Algebraic Thinking

Operations & Algebraic Thinking: equivalent, inequality, pattern, variable, expression, order of operations, evaluate, equation, forms, relationship, factoring, pair, squared, coefficient, solution, square root, inverse, vertices, exponent, point, braces, sequence, symbol, ordered pairs, rule, coordinate plane, parentheses, numerical expression, numerical pattern, brackets

Base Ten Operations

Number & Operations in Base Ten: decimal number, divisible, digit, dividend, billion, operation, natural numbers, consecutive, cardinal number, calculate, sum, product, multiplicand, percent, subtrahend, estimation, million, difference, quotient, prime number

Fractions

Number & Operations - Fractions: prime factorization, ordinal number, least common multiple, divisible, reduce, equivalent, remainder, divisor quotient, simplify, whole, percent, half, estimation, quarter, ratio, part, greatest common factor, fraction, dividend

Measurement & Data

Units & Coordinates: units of measure, unit conversion, coordinates, plot, unit, square unit, cubic units, y-axis, x-axis, coordinate system

Data Collection: data collection, unorganized data, arrangement, input, labels, increments, location, survey, data, organize

Measurement: Celsius, Fahrenheit, mass, quantity, scale, capacity, volume, estimate, measure, area

Problem Solving: predict, likely, probability, certainty, verify, less likely, collection, chosen, array, analysis

Interpretation: interpret, mean, ratio, bar graph, data, median, mode, line graph, circle graph, pie chart

Representation: randomly, function, stem and leaf plot, diagram, grid, scale, Venn diagram, double-bar graph, tree diagram, data

Geometry

Angles: semicircle, acute angle, obtuse angle, perpendicular, degrees, congruent, right angle, straight angle, parallel lines, line

Lines: coordinates, diameter, distance, line of symmetry, intersection, side, diagonal, line segment, horizontal, vertical

Measurement: diameter, circumference, radius, horizontal, turn, translation, reflection, transformation, rotation, symmetry

Shapes: semicircle, rectangular, trapezoid, two-dimensional, tessellation, quadrilateral, symmetry, parallelogram, polygon, prism

Sixth Grade Math Vocabulary CCSS

Words at a Glance:

Ratios & Proportions

Ratios & Proportional Relationships: cubic, kilometer, Fahrenheit, volume, centiliter, capacity, weight, temperature, velocity, quantity

The Number System

The Number System: composite, cardinal number, consecutive, greatest common factor, natural numbers, reducing, inverse operation, prime factorization, least common multiple, quotient

Expressions & Equations

Expressions & Equations: radicand, coefficient, rational expression, quadratic formula, real number, monomial, variable, polynomial, binomial, equation, power, equivalent, expression, simplify, inequality, symbol, order of operations, constant, exponent, factoring

Statistics & Probability

Statistics & Probability: graph, ratio, event, certainty, location, experimental probability, scale, collection, input, grid, likelihood, mean, mode, increments, Venn diagram, random, median, survey, predict, intervals

Geometry

Modelling: integers, acute, cartesian coordinate, inequality theorem, pyramid, simulation, equilateral, prism, geometry, model, rational number

Lines: polygon, similar, line segment, circumference, intersection, equilateral, ray, arc, diagonal, radius

Transformation: translation, symmetry, quadrilateral, tessellation, vertices, horizontal, vertical, supplementary, transformation, rotation

Angles: interior angles, exterior angles, scalene, equiangular, protractor, obtuse, acute, parallel, perpendicular, degrees

Seventh Grade Math Vocabulary CCSS

Words at a Glance:

Ratios & Proportions

Ratios & Proportional Relationships: analyze, fraction, unit rates, area, coordinate plane, simple interest, proportion, origin, point, equivalent

The Number System

The Number System: least common multiple, composite, perfect, cardinal number, remainder, inverse operation, estimation, ordinal number, factorization, prime, unit rates, negative exponents, interquartile range, quartile, scientific notation, perfect square, linear equation, square root, scatter plots, least common multiple

Expressions & Equations

Expressions & Equations: equivalent, rational number, factor, inequality, simplify, binomial, equation, exponent, expression, constant, intercept, additive inverses, greatest common divisor, absolute value, exponential, cube root, midpoint formula, coefficient, polynomial, function, null, compound interest, range, irrational numbers, infinite, distribute, degree, formula, quadratic, domain

Statistics & Probability

Statistics & Probability: arrangement, matrix, intervals, probability, random, matrices, statistical, standard deviation, Venn diagram, likelihood, direction, certainty, coordinates, collection, increments, cross section, distribution, survey, median, mode

Geometry

Geometry: sine, cosine, theorem, tangent, right angle, vector, focus, postulate, proof, scalar, solid, diameter, radius, parallelogram, tessellation, equilateral, circumference, transformation, isosceles, magnitude, sphere, collinear, perimeter, circumscribed, axiom, symmetry, prism, diagonal, chord, rhombus

Eighth Grade Math Vocabulary CCSS

Words at a Glance:

The Number System

The Number System: expression, convert, value, truncate, rational numbers, approximation, number line, decimal, irrational numbers, expansion

Expressions & Equations

Expressions & Equations: radian, expression, midpoint formula, rational function, exponent, ratio, frequency, synthetic division, step function, logarithm, range, interquartile range, union, hyperbola, domain, parabola, exponential, null, disjunction, variation, pythagorean theorem, run, leg, finite, hypotenuse, absolute value, infinite, slope intercept form, rise, asymptote

Statistics & Probability

Statistics & Probability: probability, matrix, standard deviation, survey, mean, mode, median, certainty, statistical, random

Functions

Functions: linear function, graph, qualitative, function, quantitative, equation, ordered pairs, output, input, rule

Geometry

Lines: corresponding, postulate, circumscribed, concurrent lines, axiom, circumcenter, chord, apothem, arc, ray

Angles: pyramid, isosceles, exterior angles, degrees, angle of elevation, equiangular, scalene, protractor, cosine, tangent, sine, central angle, adjacent, supplementary angles, complementary angles, vertical angles, acute, obtuse, right angle, radian

Transformation: rotation, translation, trigonometric, transversal, functions, tangent, reflection, tessellation, translation, symmetry

High School Math Vocabulary CCSS

Words at a Glance:

Number & Quantity

The Real Number System: series, rational expression, equation, rational number, integer, notation, real number, exponent, nonzero, polynomial, matrix, rational, value, real number, factorial, solutions, properties, complex number, radical, vector

Quantities: volume, length, average, formula, origin, data, limitation, conversion, unit, modeling, accuracy, solutions, conjugate, graph, rates, measure, quantities, area, acceleration, scale, quantity, reasoning, quantitative data, volume by slicing, dimensional, calculus, magnitude, qualitative data, dimensional analysis, unit conversion

The Complex Number System: equation, complex number, binomial, distributive, real number, multiply, polynomial, add, whole number, conjugate, property, solutions, value, quotient, subtract, number, real number, divide, associative, complex number, quadratic formula, integrals, first derivative test, complex numbers, differentials, conjugate, real number, second derivative, absolute value, irrational numbers

Vector & Matrix Quantities: direction, determinant, transformation, matrix, absolute value, scalar multiple, integrals, magnitude, scalar, vector

Algebra

Seeing Structure in Expressions: factor, square, quadratic, expression, coefficient, product, rewrite, minimum value, quantity, maximum value, manipulation, equivalent, permutation, geometric sequence, common ratio, sequences, Fibonacci, series, derive, factorial

Arithmetic with Polynomials & Rational Expressions: integer, expansion, graph, rational expression, rational number, binomial theorem, polynomial, factor, order of operations, coefficient, arithmetic, binomial, trinomial, monomial, solutions, absolute value, algebraic, combination, synthetic division, algebra

Creating Equations: graph, inequality, function, variable, rational function, linear function, coordinate axes, equation, quadratic function, solution, disjunction, domain, range, finite, conjunction, parabola, algebra, parent function, complex number, infinite, sequences, qualitative data, piecewise function, quantitative data, rational, rational expression, regression equation, frequency, radicand, real number

Reasoning with Equations & Inequalities: quadratic formula, inequality, real number, variable, equality, rational equation, matrix, complete the square, plot, simple equation, ordered pair, exponential, linear equation, solution, square root, factor, quadratic equation, coordinates, inverse, intersection, interval, domain, qualitative data, range, complement, quantitative data, proportion, compound, compound interest, solutions

Modeling

Number & Quantity - Data Processing: structure, quantity, function, computation, diagram, empirical, statistics, assumptions, predictions, consequences

Number & Quantity - Expressions: algebraic, variables, geometric, algebraic, exponents, expression, parentheses, order of operations, operations, equivalence

Number & Quantity - Operations: integrals, second derivative, irrational numbers, absolute value, real number, rational expression, complex number, absolute extrema, vector, first derivative test

Number & Quantity - Analysis: analysis, data, conclusion, validate, graphical, reason, compare, tabular, report, essential

Algebra - Coordinates: coordinates, function, real number, value, number set, ordered pair, graph, plot, system, coordinate plane

Algebra - Equations: factor, order of operations, structure, expression, constant, variable, equivalent expression, equation, solution, convert

Algebra - Operations: inequality, parentheses, quantity, exponents, operations, expression, equivalence, computation, square, manipulation

Statistics & Probability: sample space, statistics, correlation coefficient, expected values, random variable, probability distribution, empirical, numerical value, regression line, probability concepts, negation, simulations, empirical rule, variance, contrapositive, interquartile range, frequency, conditional statement, standard deviation, conditional probability

Functions: algebraic expression, recursive rule, graph, exponential function, verbal rule, linear function, domain, numerical input, infer, numerical output, variable linear density, slope, implicit function, logarithmic function, converge, matrix, element, transcendental function, concavity, critical point

Geometry: cylinder, density, grid system, physical constraints, area, volume, tangent, prism, estimate, coordinate system, hyperbola, ellipse, circular sector, cusp, ellipsoid, helix, solid of revolution, paraboloid of revolution, asymptote, lamina

Statistics & Probability

Interpreting Categorical & Quantitative Data: function, variance, quantitative data, qualitative data, outlier, frequency, standard deviation, slope, sigma, interquartile range

Making Inferences & Justifying Conclusions: conditional probability, conclude, qualitative data, quantitative data, inference, empirical rule, infer, proof, variance, conclusion

Conditional Probability & the Rules of Probability: condition, conjunction, conditional statement, conditional probability, rule, disjunction, element, negation, probability, dependent variable

Using Probability to Make Decisions: contrapositive, probability, odds, conjunction, deducing, probable, reasoning, likelihood, disjunction, less likely

Functions

Interpreting Functions: transcendental function, finite, function, critical point, logarithmic function, domain, infinity, linear equation, range, infinite

Building Functions: integral, matrices, matrix, glide reflection, range, oblique, differentials, logarithm, domain, derivative, square matrix, intercept, slope, line graph, point slope form, radian measure, period, symmetry, parallel, variation

Linear, Quadratic, & Exponential Models: distance formula, exponential, first derivative test, fractals, exponent, binomial theorem, Cramer's Rule, derivative, second derivative, integral, logarithm, velocity, linear, slope, quadratic formula, natural logarithm, lateral area, differentiation, hyperbola, parabola

Trigonometric Functions: step function, trigonometric identity, implicit function, trigonometric function, half angle formula, pythagorean, tangent, sine, cosine, double angle formula

Geometry

Congruence: angle, diagonal, apothem, congruent, converse, equiangular, direction, magnitude, parallel, convex, trapezoid, rectangle, polygon, skew lines, perpendicular, supplementary, parallelogram, rhombus, scalar, vector

Similarity, Right Triangles, & Trigonometry: bisect, function, equilateral, convex, concurrent lines, cosine, bisector, centroid, concave, isosceles, oblique, concavity, pythagorean, sine, orthocenter, tangent line, trigonometric ratios, parallel, obtuse, scalene

Circles: circumscribed, circumcenter, arc, central angle, chord, circumference, centroid, circle, diameter, circles, sphere, foci, secant, focus, tangent, radius, radii, inscribed, locus, globe

Expressing Geometric Properties with Equations: perpendicular, scalene, slope, Pythagorean Theorem, perimeter, focus, ellipse, geometric mean, parallel, polygon

Geometric Measurement & Dimension: midpoint formula, altitude, concurrent lines, conic sections, lateral area, sphere, pyramid, centroid, coplanar, collinear

Modeling with Geometry: euclidean geometry, angle of elevation, biconditional statement, vector, theorem, conditional statement, angle of depression, geometric, construction, glide reflection