



practiceplanet™

Skills List

Math - Grade 2

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	2	2,C,1: Comparing & Ordering Numbers	compare whole numbers, order whole numbers, more than, greater than, less than, between, equal to, fractions, greatest to least, least to greatest
Math	2	2,C,2: Number Relationships & Sentences	number sentence, missing number, number line, pattern, patterns, measurement
Math	2	2,C,3: Geometry: Recognize 2-D & 3-D Figures	identify two-dimensional shapes, identify three-dimensional shapes, attributes of two-dimensional shapes, attributes of three-dimensional shapes, attributes of regular polygons, attribute, attributes, polygon, vertex, vertices
Math	2	2,C,4: Measurement & Time	tell time, use appropriate tools for measuring, determine units of measure, customary units of measure, metric units of measure, read digital clocks, order times, time, relationship between days and weeks, months, and years, relationship between minutes and hours, relationship between hours and days
Math	2	2,C,5: Probability & Statistics	probability, most likely, least likely, equal chance, likely, unlikely
Math	2	2,C,6: Word Problems I	solve story problems, add, addition, solve word problems
Math	2	2,C,7: Word Problems II	solve story problems, subtract, subtraction, solve word problems
Math	2	2,C,8: Multiplication	multiplication, repeated addition, graphic models
Math	2	2,C,9: Division	division, repeated subtraction, graphic models
Math	2	2,C,10: Estimation	estimation, rounding, solve word problems, estimate money, estimate the sum, estimate the difference
Math	2	2,C,11: Problem-Solving Strategies	strategies, identify appropriate number sentences, problem solving
Math	2	2,C,12: Number Sentences	fact families, relate addition number sentences to subtraction, relate subtraction number sentences to addition
Math	2	2,C,13: Charts & Graphs	interpret charts, interpret graphs, pictographs, tables, bar graphs
Math	2	2,C,14: Determining Reasonable Solutions	estimate, reasonable solution, estimate money
Math	2	2,C,15: Addition	add whole numbers, addition of whole numbers, computation, regroup numbers in addition
Math	2	2,C,16: Subtraction	subtract whole numbers, subtraction of whole numbers, computation, regroup numbers in subtraction
Math	2	2,C,17: Flips Slides & Turns	transformations, flips, slides, turns
Math	2	2,C,18: Money	count money, coins, pennies, cents, nickels, dimes, identify coins, value of coins, money
Math	2	2,C,19: Patterning & Algebra	numbers, shapes, pictures, patterns, pattern, extend patterns, sequences, algebra
Math	2	2,C,20: Standard & Expanded Notation	place value, expanded form of numbers, standard form of numbers, read numbers, write numbers
Math	2	2,C,21: Elapsed Time	elapsed time, analog clock, digital clock, hours, minutes
Math	2	2,C,22: Ordinal Numbers & Calendars	ordinal numbers, days, weeks, month, months, months of the year, years, calendar
Math	2	2,C,23: Measurement Relationships	standard and nonstandard units of measure, compare sizes, weight, length, height

Math - Grade 2

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	2	2,C,24: Rounding	round numbers, nearest ten, nearest hundred
Math	2	2,C,25: Fractions	write fractions, read fractions, graphic models of fractions, recognize fractions

Math - Grade 3

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	3	3,C,1: Whole Number Comparisons	compare whole numbers, order whole numbers, least to greatest, greatest to least, equal to
Math	3	3,C,2: Place Value	determine place value of digits, whole numbers, hundreds, tens
Math	3	3,C,3: Skip Counting	skip count, count by threes, count by fours, count by fives, patterns, sequences
Math	3	3,C,4: Fraction Models	write fractions, read fractions, graphic models of fractions, recognize fractions
Math	3	3,C,5: Number Sentences: Missing Elements	find the missing value, addition number sentences, subtraction number sentences, identify the commutative property of addition, addition fluency, subtraction fluency
Math	3	3,C,6: Patterning	identify patterns, numbers, shapes sequences, algebra
Math	3	3,C,7: Number Lines	relative position of numbers, location of numbers, using number lines, numbers between, numbers after, before
Math	3	3,C,8: Classifying Objects	classify shapes, two-dimensional shapes, three-dimensional shapes, attributes
Math	3	3,C,9: 2-D & 3-D Figures	identify two-dimensional shapes, identify three-dimensional shapes, attributes of two-dimensional shapes, attributes of three-dimensional shapes
Math	3	3,C,10: Compare 2-D & 3-D Figures	make comparisons, common attribute, compare two-dimensional shapes, compare three-dimensional shapes
Math	3	3,C,11: Using Measurement	tell time, elapsed time, analog clock, appropriate units of measurement, customary, metric, measure objects
Math	3	3,C,12: Metric & Customary Measurement	appropriate units of measurement, customary, metric, measurement tools, measure objects
Math	3	3,C,13: Bar & Picture Graphs	bar graph, picture graph, interpret data
Math	3	3,C,14: Addition Problems	solve story problems, add, addition, solve word problems
Math	3	3,C,15: Subtraction Problems	solve story problems, subtract, subtraction, solve word problems
Math	3	3,C,16: Multiplication Problems	solve story problems, multiply, multiplication, solve word problems
Math	3	3,C,17: Division Problems	solve story problems, divide, division, solve word problems
Math	3	3,C,18: Estimating I	estimation, round numbers, solve problems
Math	3	3,C,19: Number Sentences I	number sentences, add, addition, subtract, subtraction, addition fluency, subtraction fluency
Math	3	3,C,20: Number Sentences II	number sentences, add, addition, subtract, subtraction, addition fluency, subtraction fluency
Math	3	3,C,21: Number Sentences Using Graphics	number sentences, add, addition, subtract, subtraction, graphic models, addition fluency, subtraction fluency
Math	3	3,C,22: Charts & Graphs	charts, graphs, pictographs, tables, interpret data
Math	3	3,C,23: Number Sentences Using Word Problems	number sentence, add, addition, subtract, subtraction, word problems, story problems, strategies, addition fluency, subtraction fluency

Math - Grade 3

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	3	3,C,24: Determining Reasonable Solutions	reasonable solution, estimation
Math	3	3,C,25: Standard & Expanded Number Forms	written form of a number, change the numerical values of numbers to words, change the written form of to numerical values
Math	3	3,C,26: Decimal Place Value Models	decimals, place value, tenths place, hundredths place, read decimals, write decimals
Math	3	3,C,27: Perimeter & Area	calculate perimeter, calculate area
Math	3	3,C,28: Money Applications	count money, dollars, cents, make change, value of coins
Math	3	3,C,29: Addition (Computation)	add whole numbers, addition of whole numbers, computation
Math	3	3,C,30: Subtraction (Computation)	subtract whole numbers, subtraction of whole numbers, computation
Math	3	3,C,31: Multiplication (Computation)	multiply whole numbers, multiplication of whole numbers, computation
Math	3	3,C,32: Estimation of Operations	estimation, problem solving
Math	3	3,C,33: Word Problems	word problems, add, addition, subtract, subtraction, multiply, multiplication, divide, division
Math	3	3,C,34: Elapsed Time	elapsed time
Math	3	3,C,35: Geometry Spatial Sense	rotation, reflection, translation, coordinates, coordinate plane, y- axis, x-axis
Math	3	3,C,36: Missing Information	missing information, story problems, word problems
Math	3	3,C,37: Predictions & Outcomes	make predictions, probability, possible outcomes
Math	3	3,C,38: Fractions & Decimals Ordering	order fractions, order decimals, least to greatest, greatest to least
Math	3	3,C,39: Flips, Slides, & Turns	transformations, flips, slides, turns
Math	3	3,C,40: Elapsed Time II	elapsed time
Math	3	3,C,41: Standard & Expanded Number Forms II	place value, expanded form of numbers, standard form of numbers, read numbers, write numbers

Math - Grade 4

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	4	4,C,1: Standard & Expanded Number Forms: Decimals	place value, expanded form, standard form, decimals, read numbers, write numbers
Math	4	4,C,2: Comparing Whole Numbers	compare whole numbers, order whole numbers, least to greatest, greatest to least, equal to
Math	4	4,C,3: Place Value of Whole Numbers	place value, whole numbers, ones, tens, hundreds, thousands, ten thousands, hundred thousands, mill
Math	4	4,C,4: Rounding	round numbers, nearest ten, nearest hundred, nearest thousand
Math	4	4,C,5: Place Value of Decimal Numbers	place value, decimals, ones, tens, hundreds, tenths, hundredths
Math	4	4,C,6: Skip Counting	skip count, even numbers, odd numbers, count by threes, count by fives, count by tens, sequences, pa
Math	4	4,C,7: Fraction Models	write fractions, read fractions, graphic models of fractions, recognize fractions, compare fractions, equiv fractions
Math	4	4,C,8: Whole Number Expressions	algebraic expressions, whole numbers
Math	4	4,C,9: Patterning	patterns, sequences, finding the missing number, algebra
Math	4	4,C,10: Using Number Lines	relative position of numbers, using number lines, location of numbers
Math	4	4,C,11: 2-D & 3-D Figures	two-dimensional, three-dimensional, figures, two dimensional, three dimensional, identify shapes, ident spheres, circles, prisms, hexagons, cones, cubes, pentagons, cylinders, triangles
Math	4	4,C,12: Similar, Congruent, & Symmetrical Figures	similar figures, congruent figures, line of symmetry, symmetrical figures
Math	4	4,C,13: Metric & Customary Measurement	choose appropriate units of measure, customary units of measure, metric units of measure, solve probl estimate measurement, measure objects
Math	4	4,C,14: Perimeter	perimeter
Math	4	4,C,15: Area	area
Math	4	4,C,16: Possible Outcomes	probability, possible outcomes, permutations, combinations, least likely, most likely, equal chance
Math	4	4,C,17: Interpreting Graphs	analyze graphs, interpret graphs
Math	4	4,C,18: Addition Applications: Decimals	add decimals, addition of decimals, solve problems using decimals
Math	4	4,C,19: Subtraction Applications: Decimals	subtract decimals, subtraction of decimals, solve problems using decimals
Math	4	4,C,20: Multiplication Applications: Whole Numbers	multiply whole numbers, multiplication of whole numbers, solve problems using whole numbers
Math	4	4,C,21: Division Applications: Whole Numbers	divide whole numbers, division of whole numbers, solve problems using whole numbers

Math - Grade 4

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	4	4,C,22: Estimation	estimation, round numbers, estimate the product, estimate the quotient, estimate the sum, estimate the
Math	4	4,C,23: Problem Solving	solve word problems, determine relevant information
Math	4	4,C,24: Geometric Problem Solving	solve geometry problems, find the area of figures
Math	4	4,C,25: Problem Solving	determine strategies for solving word problems, find the missing number sentence
Math	4	4,C,26: Charts & Graphs	analyze and interpret charts, analyze and interpret graphs
Math	4	4,C,27: Determining Reasonableness of Answers	reasonable solution, estimation, problem solving
Math	4	4,C,28: Standard & Expanded Number Forms: Whole Numbers	place value, expanded form, standard form, whole numbers, read numbers, write numbers
Math	4	4,C,29: Geometry & Spatial Sense	right angles, obtuse angles, acute angles, straight angles, coordinates, ordered pairs, polygons, rotation, translations, reflections
Math	4	4,C,30: Measurement	customary units of measure, metric units of measure, solve problems using customary and metric units of measure
Math	4	4,C,31: Reasonable Estimations	estimation problems, reasonable solutions
Math	4	4,C,32: Problem Solving	multi-step problems, solve word problems
Math	4	4,C,33: Fractions: Addition & Subtraction	solve word problems, add fractions, subtract fractions, addition of fractions, subtraction of fractions
Math	4	4,C,34: Fractions: Multiplication & Division	solve word problems, multiply fractions, multiplication of fractions, division of fractions, divide fractions
Math	4	4,C,35: Addition	add whole numbers, addition of whole numbers, computation
Math	4	4,C,36: Subtraction	subtract whole numbers, subtraction of whole numbers, computation
Math	4	4,C,37: Basic Operations & Order of Operations	order of operations
Math	4	4,C,38: Angles: Acute, Obtuse, Right, & Straight	acute angles, obtuse angles, right angles, straight angles, classify angles
Math	4	4,C,39: Number Properties: Prime, Composite, Factor, or Multiple	prime numbers, composite numbers, factors, multiples, common factors
Math	4	4,C,40: Ordered Pairs	ordered pairs, coordinates, quadrants, coordinate graphs, x-axis, y-axis
Math	4	4,C,41: Elapsed Time	elapsed time

Math - Grade 5

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	5	5,C,1: Compare & Order Numbers	compare decimals, compare fractions, order decimals, order fractions, least to greatest, greatest to least
Math	5	5,C,2: Rounding	round numbers, nearest hundred, nearest ten, nearest one, nearest tenth
Math	5	5,C,3: Fractions I	write fractions, read fractions, recognize fractions, compare fractions, equivalent fractions
Math	5	5,C,4: Fractions II	write fractions, read fractions, graphic models of fractions, compare fractions, equivalent fractions
Math	5	5,C,5: Factoring	factors, composite numbers, product of prime numbers, prime numbers
Math	5	5,C,6: Algebraic Expressions	algebraic expressions, associative property of addition, commutative property of addition, associative property of multiplication, commutative property of multiplication, multiplicative inverse
Math	5	5,C,7: Patterning	patterns, sequences, finding the missing number, algebra
Math	5	5,C,8: Number Lines	relative position of numbers, using number lines, location of numbers
Math	5	5,C,9: Ordered Pairs	ordered pairs, coordinates, quadrants, coordinate graphs, x-axis, y-axis
Math	5	5,C,10: Geometry: 2-D & 3-D Figures	parallel lines, perpendicular lines, identify two-dimensional shapes, identify three-dimensional shapes, identify circles, identify angles in polygons, polygons
Math	5	5,C,11: Congruence & Symmetry	congruent figures, line of symmetry, symmetrical figures
Math	5	5,C,12: Transformations	rotations, reflections, translations, transformations
Math	5	5,C,13: Metric & Customary Measurement	choose appropriate units of measure, customary units of measure, metric units of measure, solve problems involving estimate measurement, measure objects
Math	5	5,C,14: Perimeter & Circumference	perimeter, circumference
Math	5	5,C,15: Area & Volume	area, volume
Math	5	5,C,16: Metric Conversions	metric units of measure, solve problems using metric units of measure, conversions of metric units of measure
Math	5	5,C,17: Customary Conversions	customary units of measure, solve problems using customary units of measure, conversions of customary units of measure
Math	5	5,C,18: Probability: Possible Outcomes	probability, possible outcomes, permutations, combinations, least likely, most likely, equal chance
Math	5	5,C,19: Graphs & Data Management	analyze and interpret graphs
Math	5	5,C,20: Counting I	counting principle, combinations, possible outcomes
Math	5	5,C,21: Probability I	probability, fractions in lowest terms, ratios in lowest terms, simple experiments
Math	5	5,C,22: Determining Mean	finding the mean
Math	5	5,C,23: Addition Problems I	add whole numbers, addition of whole numbers, solve problems using whole numbers
Math	5	5,C,24: Subtraction Problems I	subtract whole numbers, subtraction of whole numbers, solve problems using whole numbers, subtract decimals, subtraction of decimals, solve problems using decimals

Math - Grade 5

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	5	5,C,25: Multiplication Problems I	multiply whole numbers, multiplication of whole numbers, solve problems using whole numbers
Math	5	5,C,26: Division Problems I	divide whole numbers, division of whole numbers, solve problems using whole numbers
Math	5	5,C,27: Estimation	estimation, round numbers, estimate the product, estimate the quotient, estimate the sum, estimate the
Math	5	5,C,28: Whole Numbers: Problem Solving Strategies	solve word problems, determine relevant information, problem solving strategies
Math	5	5,C,29: Geometric Problem Solving I	solve geometry problems, area, perimeter
Math	5	5,C,30: Congruence	congruent figures
Math	5	5,C,31: Probability II	probability, simple experiments
Math	5	5,C,32: Algebraic Solution Sentences	change words problems to algebraic expressions, problem solving strategies, using number sentences
Math	5	5,C,33: Interpreting Data	analyze and interpret tables, analyze and interpret graphs
Math	5	5,C,34: Determining Reasonable Solutions	reasonable solutions, estimation problems
Math	5	5,C,35: Elapsed Time	elapsed time
Math	5	5,C,36: Standard & Expanded Number Forms	place value, expanded form, standard form, read numbers, write numbers, whole numbers, decimal num
Math	5	5,C,37: Analyze Data	analyze and interpret graphs, analyze and interpret tables
Math	5	5,C,38: Geometric Problem Solving II: Figures	solve geometry problems, finding the missing figure from a group
Math	5	5,C,39: Least Common Multiple & Greatest Common Factor	greatest common factor, least common multiple, GCF, LCM
Math	5	5,C,40: Estimation of Operations	estimation, estimate the product, round numbers, estimate the sum, estimate the quotient, estimate the
Math	5	5,C,41: Money Applications	solve money problems
Math	5	5,C,42: Multiplication Problems II	multiply whole numbers, multiplication of whole numbers, computation
Math	5	5,C,43: Division Problems II	divide whole numbers, division of whole numbers, computation
Math	5	5,C,44: Addition Problems II	add whole numbers, addition of whole numbers, computation, add fractions, addition of fractions, add d addition of decimals
Math	5	5,C,45: Subtraction Problems II	subtract whole numbers, subtraction of whole numbers, computation, subtract fractions, subtraction of f subtract decimals, subtraction of decimals
Math	5	5,C,46: Place Value	place value, whole numbers, decimals, tenths, hundredths, ones, tens, hundreds, thousands, ten thous hundred thousands, identify the value of a digit

Math - Grade 5

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	5	5.C.47: Number Properties	prime numbers, composite numbers
Math	5	5.C.48: Logic Problems	deductive reasoning, problem solving, estimation, reasonable solution, critical thinking, word problems, reasoning

Math - Grade 6

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	6	6,C,1: Compare & Order Numbers	compare decimals, compare fractions, order decimals, order fractions, least to greatest, greatest to least
Math	6	6,C,2: Round Numbers	round numbers, nearest hundred, nearest ten, nearest one, nearest tenth
Math	6	6,C,3: Renaming Fractions	convert fractions to decimals, convert decimals to fractions, convert fractions to percents, convert percent fractions, convert decimals to percents, convert percents to fractions, problem solving
Math	6	6,C,4: Exponents & Notation	using exponents, writing numbers in exponential form, exponential notation
Math	6	6,C,5: Factoring	factors, composite numbers, product of prime numbers, prime numbers
Math	6	6,C,6: Least Common Multiple & Greatest Common Factor	least common multiple, greatest common factor, GCF, LCM
Math	6	6,C,7: Algebraic Expressions	algebraic expressions, associative property of addition, commutative property of addition, associative property of multiplication, commutative property of multiplication, multiplicative inverse
Math	6	6,C,8: Patterning	patterns, sequences, finding the missing number, algebra
Math	6	6,C,9: Ratios	ratio, equivalent fractions
Math	6	6,C,10: Linear Equations	finding the missing value, solving for the variable, equations, using inverse operations
Math	6	6,C,11: Ordered Pairs	ordered pairs, coordinates, quadrants, coordinate graphs, x-axis, y-axis
Math	6	6,C,12: Number Lines	relative position of numbers, using number lines, location of numbers
Math	6	6,C,13: Geometry I: 2-D & 3-D Figures	parallel lines, perpendicular lines, identify two-dimensional shapes, identify three-dimensional shapes, identify circles, identify angles in polygons, polygons, prisms
Math	6	6,C,14: Transformations	rotations, reflections, translations, transformations
Math	6	6,C,15: Similar, Congruent, & Symmetrical Figures I	similar figures, congruent figures, line of symmetry, symmetrical figures, identify congruent figures, identify similar figures, identify symmetrical figures
Math	6	6,C,16: Metric & Customary Measurement	metric units of measure, customary units of measure, measuring objects, using appropriate units, convert units of measure, estimate units of measure, problem solving with units of measure
Math	6	6,C,17: Metric Measurement	metric units of measure, using appropriate units, convert units of measure, problem solving with units of measure
Math	6	6,C,18: Customary Measurement	customary units of measure, using appropriate units, convert units of measure, problem solving with units of measure
Math	6	6,C,19: Perimeter & Circumference	perimeter, circumference
Math	6	6,C,20: Area & Volume	area, volume
Math	6	6,C,21: Using Counting Arrangements	permutations, possible combinations, counting principle
Math	6	6,C,22: Fractional Probability	find probability, simple experiments, express probability as a fraction
Math	6	6,C,23: Probability	identify the probability, predict outcomes
Math	6	6,C,24: Interpreting Graphs	analyze and interpret graphs
Math	6	6,C,25: Determining Mean	finding the mean
Math	6	6,C,26: Addition: Word Problems	addition, computation, addition word problems, find the sum, add fractions, add decimals, word problems

Math - Grade 6

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	6	6,C,27: Subtraction: Word Problems	subtraction, computation, subtraction word problems, find the difference, subtract fractions, subtract decimals, word problems
Math	6	6,C,28: Multiplication: Word Problems	multiplication, computation, multiplication word problems, find the product, multiply whole numbers, multiply decimals, word problems
Math	6	6,C,29: Division: Word Problems	division, computation, division word problems, find the quotient, divide whole numbers, divide decimals, word problems
Math	6	6,C,30: Estimation I	estimation, round numbers, estimate the product, estimate the quotient, estimate the sum, estimate the difference
Math	6	6,C,31: Basic Operations	solve word problems, determine relevant information, problem solving strategies
Math	6	6,C,32: Geometric Problem Solving I	solve geometric problems, area, perimeter
Math	6	6,C,33: Similar, Congruent, & Symmetrical Figures II	similar figures, congruent figures, line of symmetry, symmetrical figures, identify congruent figures, identify similar figures, identify symmetrical figures
Math	6	6,C,34: Probability & Statistics	identify the probability, predict outcomes
Math	6	6,C,35: Algebraic Solution Sentences	change word problems to algebraic expressions, problem solving strategies, using number sentences
Math	6	6,C,36: Graphs, Charts, & Data Management	interpret data, graphs, charts, data management, analyze data, line plots, bar graphs, scatter plots
Math	6	6,C,37: Determining Reasonable Solutions	reasonable solutions, estimation problems
Math	6	6,C,38: Place Value	place value, standard form, read numbers, write numbers, whole numbers, decimal numbers, thousandths, hundreds, tens, ones, tenths, hundredths, thousandths, identify the value of a digit
Math	6	6,C,39: Equivalent Fractions	equivalent fractions, equivalent mixed numbers
Math	6	6,C,40: Standard & Expanded Number Forms	standard form of a number, place value of a number, written form of a number, read numbers
Math	6	6,C,41: Geometric Problem Solving II: Shapes & Angles	solve geometry problems, identify a figure from a group, obtuse angles, acute angles, right angles, straight angles
Math	6	6,C,42: Multiplication	multiply whole numbers, multiplication of whole numbers, computation, multiply fractions, multiplication of fractions, multiply decimals, multiplication of decimals
Math	6	6,C,43: Estimation II	estimation, round numbers, estimate the product, estimate the quotient, estimate the sum, estimate the difference
Math	6	6,C,44: Subtraction	subtract whole numbers, subtraction of whole numbers, computation, subtract fractions, subtraction of fractions, subtract decimals, subtraction of decimals
Math	6	6,C,45: Addition	add whole numbers, addition of whole numbers, computation, add fractions, addition of fractions, add decimals, addition of decimals
Math	6	6,C,46: Division	divide whole numbers, division of whole numbers, computation, divide fractions, division of fractions, divide decimals, division of decimals
Math	6	6,C,47: Problem-Solving Strategies	strategies, finding number sentences, strategies in word problems, problem solving strategies

Math - Grade 6

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	6	6,C,48: Interpreting Data	interpret data, analyze data, bar graphs, line plots, charts
Math	6	6,C,49: Measuring Angles	finding the degrees of angles, measure angles, acute angles, obtuse angles, right angles, straight angles
Math	6	6,C,50: Faces, Vertices, & Edges	faces, vertices, edges, vertex, three-dimensional, three dimensional, solids
Math	6	6,C,51: Logic Problems	making inferences, deductive reasoning, critical thinking, problem solving, estimating

Math - Grade 7

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	7	7,C,1: Compare & Order Numbers	compare numbers, order numbers, compare fractions, compare decimals, compare whole numbers, compare integers
Math	7	7,C,2: Rounding	round whole numbers, nearest ten, nearest thousand, nearest ten thousand, place value, estimation, round decimals, nearest tenths, nearest ten-thousandths, nearest hundredths
Math	7	7,C,3: Fractions, Decimals, & Percents: Conversions & Problem Solving	convert fractions to decimals, convert decimals to fractions, convert fractions to percents, convert percent fractions, convert decimals to percents, convert percents to fractions, problem solving, understand and connections among multiple representations of the same mathematical idea
Math	7	7,C,4: Exponential Notation	use exponents, write numbers in exponential form, exponential notation, multiply, divide, and simplify rational numbers by using exponent rules, understand negative whole-number exponents, multiply and divide rational numbers involving exponents with a common base, add, subtract, multiply, and divide rational numbers and take rational numbers to whole-number powers
Math	7	7,C,5: Scientific Notation	scientific notation, using exponents, writing numbers
Math	7	7,C,6: Algebraic Operations	multiplicative identity, multiplicative inverse, zero property, transitive property, additive inverse, distributive property of multiplication over addition
Math	7	7,C,7: Patterning	patterns, sequences, finding rules for patterns
Math	7	7,C,8: Ratio & Proportion	ratio, proportion, equivalent fractions, solving proportions, understand and make connections among multiple representations of the same mathematical idea
Math	7	7,C,9: Simple Equations	finding missing values, variables, equations, using inverse operations, understand and make connections among multiple representations of the same mathematical idea
Math	7	7,C,10: Ordered Pairs	ordered pairs, coordinates, graphing ordered pairs, x-axis, y-axis, coordinate graph, explain, describe, and mathematical ideas using representations
Math	7	7,C,11: Algebraic Expressions	order of operations, algebraic expressions, using variables, substitution, using formulas, understand and connections among multiple representations of the same mathematical idea
Math	7	7,C,12: Geometry: 2D & 3D Figures	attributes of equilateral triangles, attributes of isosceles triangles, attributes of scalene triangles, sides of polygons, attributes of polygons, lines, angles, rays, adjacent angles, supplementary angles, vertical and complementary angles, use mathematics to show and understand physical phenomena
Math	7	7,C,13: Similar, Congruent, & Symmetrical Figures	similar figures, congruent figures, line of symmetry, symmetrical figures, identify congruent figures, identify figures, identify symmetrical figures
Math	7	7,C,14: Geometry & Figure Construction	angle bisector, perpendicular bisectors, congruent angles, congruent triangles, parallel lines, identify and measurements using protractors, tangent lines, recognize, compare, and use an array of representations
Math	7	7,C,15: Metric & Customary Measurement	metric units of measure, customary units of measure, measuring objects, using appropriate units, convert measure, estimate units of measure, problem solving using units of measure, recognize, compare, and array of representational forms
Math	7	7,C,16: Area & Volume	calculate area of figures, calculate volume of figures, problem solving with area and volume

Math - Grade 7

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	7	7,C,17: Permutations & Counting Arrangements	permutations, possible combinations, counting principle, probability
Math	7	7,C,18: Probability I	determine the most likely outcome, determine the least likely outcome, determine equal chance, probab
Math	7	7,C,19: Mean, Median, & Mode	mean, median, mode
Math	7	7,C,20: Addition: Word & Computation Problems	addition of whole numbers, addition word problems, find the sum, add whole numbers, computation, so nonroutine problems for which the answers are not given, use mathematical strategies to reach a con provide a correct, complete, coherent, and clear rationale for thought process used in problem solving
Math	7	7,C,21: Subtraction: Word & Computation Problems	subtraction of whole numbers, subtraction word problems, find the difference, subtract whole numbers, computation, solve nonroutine problems for which the answers are not given, use mathematical strate reach a conclusion
Math	7	7,C,22: Multiplication: Word & Computation Problems	multiplication of whole numbers, computation, multiply whole numbers, solve nonroutine problems for answers are not given, use mathematical strategies to reach a conclusion
Math	7	7,C,23: Division: Word & Computation Problems	division of whole numbers, division word problems, find the quotient, divide whole numbers, computatic nonroutine problems for which the answers are not given, use mathematical strategies to reach a con
Math	7	7,C,24: Estimation I	estimation, word problems, percents, decimals, rounding, reasonable solution, provide a correct, compl coherent, and clear rationale for thought process used in problem solving
Math	7	7,C,25: Problem Solving Strategies	strategies, finding number sentences, strategies in word problems, problem solving strategies, evaluate conjectures by distinguishing relevant from irrelevant information to reach a conclusion or make approp estimates, provide a correct, complete, coherent, and clear rationale for thought process used in proble
Math	7	7,C,26: Geometry: Basic Concepts	identify strategies for solve area problems, identify vertical angles, identify the common attribute betwe compare perimeter of two figures, identify parts of a circle
Math	7	7,C,27: Similar, Congruent, & Symmetrical Figures II	corresponding angles, corresponding sides, congruent polygons, similar polygons, identify the number symmetry, identify symmetrical figures
Math	7	7,C,28: Probability II	express probabilities as fractions or ratios, identify the probability, predict future outcomes
Math	7	7,C,29: Measurement	word problems, using customary and metric units of measure to solve problems, convert units of measu recognize, compare, and use an array of representational forms
Math	7	7,C,30: Problem Solving: Predicting Outcomes	probability, predicting, outcomes, least likely outcomes, most likely outcomes, data analysis
Math	7	7,C,31: Equations & Inequalities	solving equations, solving inequalities, finding the missing value, variables, change phrases to inequalit change phrases to algebraic expressions
Math	7	7,C,32: Graphs, Charts, & Data Management	interpret data, graphs, charts, data management, analyze data, line plots, bar graphs, scatterplots, expl describe, and defend mathematical ideas using representations

Math - Grade 7

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	7	7,C,33: Determining Reasonable Solutions	reasonable solution, estimation, problem solving, rounding, computation, provide a correct, complete, c and clear rationale for thought process used in problem solving
Math	7	7,C,34: Transformations	rotations, reflections, translations, transformations
Math	7	7,C,35: Circles	diameter, circumference, area, measurement of circles, radius, secant
Math	7	7,C,36: Number Systems & Functions	function of a number, square roots, inverse operations, prime numbers, identify the value of a number ii exponential form
Math	7	7,C,37: Standard & Expanded Number Forms	standard form of a number, expanded form of a number, place value of a number, written form of a nun numbers
Math	7	7,C,38: Understanding Fractions	equivalent fractions
Math	7	7,C,39: Estimating Money	money, estimation, round dollar amounts, nearest cent, nearest dollar
Math	7	7,C,40: Estimation II	estimation, word problems, reasonable solution, approximate answer, rounding, estimate the sum, estim difference, estimate the product, estimate the quotient, provide a correct, complete, coherent, and clear for thought process used in problem solving
Math	7	7,C,41: Problem Solving	word problems, solve money problems, solve percent problems, evaluate conjectures by distinguishing from irrelevant information to reach a conclusion or make appropriate estimates, provide a correct, com coherent, and clear rationale for thought process used in problem solving
Math	7	7,C,42: Interpreting Data	interpret data, analyze data, bar graphs, line plots, stem-and-leaf diagrams, explain, describe, and defe mathematical ideas using representations, recognize, compare, and use an array of representational fo
Math	7	7,C,43: Adding Fractions	add fractions, addition of fractions, computation, sum
Math	7	7,C,44: Adding Decimals	add decimals, addition of decimals, computation, sum
Math	7	7,C,45: Subtracting Fractions	subtract fractions, subtraction, computation, difference
Math	7	7,C,46: Subtracting Decimals	subtract decimals, subtraction, computation, difference
Math	7	7,C,47: Multiplying Fractions	multiply fraction, multiplication, computation, product
Math	7	7,C,48: Multiplying Decimals	multiply decimals, multiplication, computation, product
Math	7	7,C,49: Dividing Fractions	divide fractions, division, computation, quotient
Math	7	7,C,50: Dividing Decimals	divide decimals, division, computation, quotient
Math	7	7,C,51: Determining Discounts	finding discounts, percents, markdowns, markups, word problems, percentages
Math	7	7,C,52: Measuring Angles	finding the degrees of angles, measure angles, acute angles, obtuse angles, right angles, straight angl
Math	7	7,C,53: Logic Problems	making inferences, deductive reasoning, critical thinking, problem solving, estimating, provide a correct coherent, and clear rationale for thought process used in problem solving
Math	7	7,C,54: Number Properties	prime numbers, composite numbers, prime factorization, greatest common factor, least common multip

Math - Grade 7

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	7	7,C,55: Square Roots	square roots, squares, estimate the value of square roots, classify irrational numbers as non-repeating terminating decimals

Math - Grade 8

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	8	8,C,1: Using Scientific Notation	scientific notation, using exponents, writing numbers
Math	8	8,C,2: Using Exponential Notation	use exponents, write numbers in exponential form, exponential, notation
Math	8	8,C,3: Compare & Order Rational Numbers	compare numbers, order numbers, compare fractions, compare decimals, compare whole numbers, rational numbers
Math	8	8,C,4: Rounding	round whole numbers, nearest ten, nearest thousand, nearest ten thousand, place value, estimation, round decimals, nearest tenth, nearest ten-thousandth, nearest hundredth
Math	8	8,C,5: Fractions, Decimals, & Percents, & Conversions: Problem Solving	convert fractions to decimals, convert decimals to fractions, convert fractions to percents, convert percents to fractions, convert decimals to percents, convert percents to fractions, problem solving, understand and make connections among multiple representations of the same mathematical idea
Math	8	8,C,6: Algebraic Expressions	use the order of operations, algebraic expressions, use variables, substitution, use formulas, equivalent expressions, understand and demonstrate how written symbols represent mathematical ideas, represent problem situations verbally, numerically, algebraically, and graphically, use physical objects, drawings, charts, tables, graphs, symbols, equations, or objects created using technology as representations, explain, describe, and defend mathematical ideas using representations
Math	8	8,C,7: Patterning	patterns, sequences, finding rules for patterns
Math	8	8,C,8: Ordered Pairs & Solution Sets	ordered pairs, coordinates, graphing ordered pairs, x-axis, y-axis, coordinate graph, explain, describe, and defend mathematical ideas using representations
Math	8	8,C,9: Ratio & Proportion	ratio, proportion, equivalent fractions, solve proportion problems, understand and make connections among multiple representations of the same mathematical idea
Math	8	8,C,10: Exponents	add numbers in exponential form, subtract numbers in exponential form, multiply numbers in exponential form, divide numbers in exponential form
Math	8	8,C,11: Evaluating Variables & Expressions	write algebraic expressions, solve algebraic expressions, use formulas, use variables, substitute the variable for the value, understand and make connections among multiple representations of the same mathematical idea, explain, describe, and defend mathematical ideas using representations
Math	8	8,C,12: Solving Equations	solve equations, use inverse operations, substitute the variable for the value, variables, understand and make connections among multiple representations of the same mathematical idea, explain, describe, and defend mathematical ideas using representations
Math	8	8,C,13: Geometry: Basic Concepts	identify lines, identify line segments, identify rays, identify angles, identify parts of figures
Math	8	8,C,14: Geometry: 2D & 3D Figures	attributes of equilateral triangles, attributes of isosceles triangles, attributes of scalene triangles, sides of polygons, attributes of polygons, lines, angles, rays, adjacent angles, supplementary angles, vertical angles, complementary angles, properties of geometric figures
Math	8	8,C,15: Geometry: Right Triangles	use the Pythagorean Theorem, measurement of right triangles, identify the missing measures in right triangles
Math	8	8,C,16: Similar, Congruent, & Symmetrical Figures	similar figures, congruent figures, line of symmetry, symmetrical figures, identify congruent figures, identify similar figures, identify symmetrical figures
Math	8	8,C,17: Geometry & Figure Construction	angle bisectors, perpendicular bisectors, congruent angles, congruent triangles, parallel lines, identify angle measurements, tangent lines
Math	8	8,C,18: Metric & Customary Measurement	metric units of measure, customary units of measure, measuring objects, using appropriate units, convert units of measure, estimate units of measure, problem solving with units of measure, explain, describe, and defend mathematical ideas using representations

Math - Grade 8

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	8	8,C,19: Metric Conversions	convert metric units, find equivalent units of measure, metric measurements, metric system
Math	8	8,C,20: Customary Conversions	convert customary units, find equivalent units of measure, customary system, customary measurements
Math	8	8,C,21: Perimeter & Circumference	find the perimeter of a figure, find the circumference of a circle, use formulas for perimeter, use formulas for circumference
Math	8	8,C,22: Area & Volume	find the area of a figure, find the volume of a figure, use formulas for area, use formulas for volume
Math	8	8,C,23: Measurement Precision	choose the appropriate units of measure, approximate the measurement of objects, estimation, explain, describe, and defend mathematical ideas using representations
Math	8	8,C,24: Using Counting Arrangements	permutations, possible combinations, counting principle
Math	8	8,C,25: Probability	determine the most likely outcome, determine the least likely outcome, determine equal chance
Math	8	8,C,26: Mean, Median, & Mode	find the mean, find the median, find the mode, central tendency
Math	8	8,C,27: Frequency Distributions	analyze charts, analyze graphs, frequency distributions, interpret data, explain, describe, and defend mathematical ideas using representations, statistical models of data
Math	8	8,C,28: Addition: Word & Computation Problems	addition of whole numbers, addition word problems, find the sum, add whole numbers, computation, draw conclusions about mathematical ideas through decoding, comprehension, and interpretation of mathematical visuals, symbols, and technical writing
Math	8	8,C,29: Subtraction: Word & Computation Problems	subtraction of whole numbers, subtraction word problems, find the difference, subtract whole numbers, computation, draw conclusions about mathematical ideas through decoding, comprehension, and interpretation of mathematical visuals, symbols, and technical writing
Math	8	8,C,30: Multiplication: Word & Computation Problems	multiplication of whole numbers, multiply whole numbers, word problems, draw conclusions about mathematical ideas through decoding, comprehension, and interpretation of mathematical visuals, symbols, and technical writing
Math	8	8,C,31: Division: Word & Computation Problems	division of whole numbers, division word problems, find the quotient, divide whole numbers, computation, draw conclusions about mathematical ideas through decoding, comprehension, and interpretation of mathematical visuals, symbols, and technical writing
Math	8	8,C,32: Estimation I	estimation, word problems, percents, decimals, rounding, reasonable solution, draw conclusions about mathematical ideas through decoding, comprehension, and interpretation of mathematical visuals, symbols, and technical writing
Math	8	8,C,33: Proportions	solve proportions, equivalent fractions, ratios, understand and make connections among multiple representation of the same mathematical idea
Math	8	8,C,34: Problem Solving: Percents & Percentages	solve percent problems, find the percent of a number, find the number when the percent is known
Math	8	8,C,35: Problem Solving: Measurement	apply measurement to problem solving, solve problems using metric and customary units of measurement, calculate units of measure, explain, describe, and defend mathematical ideas using representations
Math	8	8,C,36: Geometry: Problem Solving	solve geometry problems, apply formulas to geometry problems, explain, describe, and defend mathematical ideas using representations
Math	8	8,C,37: Probability & Statistics	express probabilities as fractions or ratios, identify the probability, predict outcomes, statistical models of data

Math - Grade 8

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	8	8,C,38: Problem Solving: Predicting Outcomes	probability, predicting outcomes, least likely outcomes, most likely outcomes, data analysis
Math	8	8,C,39: Inequalities	solving inequalities, find the missing value, variables, use greater than symbols, use less than symbols, change phrases to inequalities, change phrases to algebraic expressions
Math	8	8,C,40: Interpreting Graphs	interpret data, graphs, charts, data management, analyze data, line plots, bar graphs, scatter plots, explain, describe, and defend mathematical ideas using representations, statistical models of data
Math	8	8,C,41: Determining Reasonable Solutions	reasonable solution, estimation, problem solving, rounding, computation, draw conclusions about mathematical ideas through decoding, comprehension, and interpretation of mathematical visuals, symbols, and technical writing
Math	8	8,C,42: Adding Decimals	add decimals, addition, computation
Math	8	8,C,43: Adding Fractions	add fractions, addition, computation
Math	8	8,C,44: Subtracting Decimals	subtract decimals, subtraction, computation
Math	8	8,C,45: Subtracting Fractions	subtract fractions, subtraction, computation
Math	8	8,C,46: Multiplying Decimals	multiply decimals, multiplication, computation
Math	8	8,C,47: Multiplying Fractions	multiply fractions, multiplication, computation
Math	8	8,C,48: Dividing Decimals	divide decimals, division, computation
Math	8	8,C,49: Dividing Fractions	divide fractions, division, computation
Math	8	8,C,50: Number Relationships: Fractions, Decimals, & Percents	find sets of equivalent fractions, written forms of numbers, written forms of decimals, understand and make connections among multiple representations of the same mathematical idea
Math	8	8,C,51: Identify Place Value	relative position of a number, location of a number, place value
Math	8	8,C,52: Multi-Step Word Problems	solve word problems, one step word problems, two step word problems, multi-step word problems, draw conclusions about mathematical ideas through decoding, comprehension, and interpretation of mathematical visuals, symbols, and technical writing
Math	8	8,C,53: Understanding Circles	find the circumference, find the diameter, use the formula for circumference, use the formula for diameter, identify parts of a circle
Math	8	8,C,54: Estimation II	estimation, word problems, reasonable solution, approximate answer, rounding, estimate the sum, estimate the difference, estimate the product, estimate the quotient, draw conclusions about mathematical ideas through decoding, comprehension, and interpretation of mathematical visuals, symbols, and technical writing
Math	8	8,C,55: Geometry: Basic Concepts	determine the fraction of the shaded polygons, recognize hexagons, recognize pentagons, recognize octagons, use geometric formulas, recognize parts of a circle
Math	8	8,C,56: Translations	rotations, reflections, translations, transformations
Math	8	8,C,57: Logic Problems	making inferences, deductive reasoning, critical thinking, problem solving, estimating, draw conclusions about mathematical ideas through decoding, comprehension, and interpretation of mathematical visuals, symbols, and technical writing
Math	8	8,C,58: Number Properties	identify prime numbers, identify composite numbers, identify distributive property, identify the least common multiple, identify the greatest common factor
Math	8	8,C,59: Square Roots	square roots, squares, estimate the value of square roots, irrational numbers

Math - Grade 9

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	9	9,C,1: Real Numbers	compare numbers, order numbers, compare fractions, compare decimals, compare whole numbers, rational numbers, compare integers
Math	9	9,C,2: Scientific Notation	scientific notation, using exponents, writing numbers
Math	9	9,C,3: Rounded Numbers	round whole numbers, nearest ten, nearest thousand, nearest ten thousand, place value, estimation, round decimals, nearest tenth, nearest ten-thousandth, nearest hundredth
Math	9	9,C,4: Conversions of Fractions, Decimals, & Percents	convert fractions to decimals, convert decimals to fractions, convert fractions to percents, convert percent fractions, convert decimals to percents, convert percents to fractions, problem solving, understand and connections among multiple representations of the same mathematical idea
Math	9	9,C,5: Square Roots	square roots, squares, estimate the value of square roots, irrational numbers
Math	9	9,C,6: Equivalent Equations	strategies for solving equations, inverse operations, use distributive property, use commutative property, understand and make connections among multiple representations of the same mathematical idea
Math	9	9,C,7: Patterns	patterns, sequences, finding rules for patterns, recursive patterns
Math	9	9,C,8: Ordered Pairs & Solution Sets	ordered pairs, coordinates, graphing ordered pairs, x-axis, y-axis, coordinate graph, use physical objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as represent mathematical concepts
Math	9	9,C,9: Ratio & Proportion	ratio, proportion, equivalent fractions, understand and make connections among multiple representations of the same mathematical idea, solve proportion problems, recognize and verify, where appropriate, geometric relationships of perpendicularity, parallelism, congruence, and similarity, using algebraic strategies
Math	9	9,C,10: Variable Expressions	use the order of operations, algebraic expressions, use variables, substitution, use formulas, problem solving, understand and make connections among multiple representations of the same mathematical idea, use objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as representations of mathematical concepts
Math	9	9,C,11: Solving Equations	solve equations, use inverse operations, substitute the variable for the value, variables, use physical objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as represent mathematical concepts
Math	9	9,C,12: Geometry: Basic Concepts	identify lines, identify line segments, identify rays, identify angles, identify parts of figures, Know and apply: if a line is perpendicular to each of two intersecting lines at their point of intersection, then the line is perpendicular to the plane determined by the
Math	9	9,C,13: Geometry: Figures	attributes of two dimensional figures, identify two dimensional figures, line of symmetry, recognize and verify, where appropriate, geometric relationships of perpendicularity, parallelism, congruence, and similarity, algebraic strategies
Math	9	9,C,14: Geometry: Right Triangles	use the Pythagorean Theorem, measurement of right triangles, identify the missing measure in right triangles, recognize and verify, where appropriate, geometric relationships of perpendicularity, parallelism, congruence, and similarity, using algebraic strategies

Math - Grade 9

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	9	9,C,15: Geometry: Similar Triangles	similar triangles, identify the missing measure in similar triangles, use proportions, use variables, geometric relationships, recognize and verify, where appropriate, geometric relationships of perpendicularity, parallelism, congruence, and similarity, using algebraic strategies
Math	9	9,C,16: Geometry: Applications	apply angle measures to solve geometry problems, determine angle relationships using transversal lines, solve geometry problems, use physical objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as representations of mathematical concepts, recognize and verify, where appropriate, geometric relationships of perpendicularity, parallelism, congruence, and similarity, using algebraic strategies, know and apply that if a line is perpendicular to each of two intersecting lines at their point of intersection, the line is perpendicular to the plane determined by the two lines
Math	9	9,C,17: Customary Measurement	use customary units of measure, measure objects, choose appropriate units of measure, use physical objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as representations of mathematical concepts
Math	9	9,C,18: Measurement	use metric units of measure, customary units of measure, measure objects, using appropriate units, convert units of measure, estimate units of measure, problem solving with units of measure, use physical objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as representations of mathematical concepts
Math	9	9,C,19: Perimeter, Area, & Volume	calculate perimeter, calculate area, calculate volume, volume, perimeter, area
Math	9	9,C,20: Measurement: Precision	choose the appropriate units of measure, approximate the measurement of objects, estimation, use physical objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as representations of mathematical concepts
Math	9	9,C,21: Using Counting Arrangements	permutations, possible combinations, counting principle
Math	9	9,C,22: Probability	determine the most likely outcome, determine the least likely outcome, determine equal chance, probability
Math	9	9,C,23: Mean, Median, & Mode	find the mean, find the median, find the mode, central tendency, statistical models
Math	9	9,C,24: Addition: Word Problems	addition, addition word problems, find the sum, add decimals, money application, use a variety of problem solving strategies to understand new mathematical content
Math	9	9,C,25: Subtraction: Word Problems	subtraction word problems, find the difference, subtract decimals, money application, use a variety of problem solving strategies to understand new mathematical content
Math	9	9,C,26: Multiplication: Word Problems	money application, multiply decimals, word problems, use a variety of problem solving strategies to understand new mathematical content
Math	9	9,C,27: Division: Word Problems	money application, division word problems, find the quotient, divide decimals, use a variety of problem solving strategies to understand new mathematical content
Math	9	9,C,28: Estimation	estimation, word problems, percents, decimals, rounding, reasonable solution, use a variety of problem solving strategies to understand new mathematical content
Math	9	9,C,29: Proportion	solve proportions, equivalent fractions, ratios, recognize and verify, where appropriate, geometric relationships of perpendicularity, parallelism, congruence, and similarity, using algebraic strategies

Math - Grade 9

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	9	9,C,30: Measurement	solve measurement problems, calculate using different units of measure, metric and customary units of use physical objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as representations of mathematical concepts
Math	9	9,C,31: Percents & Percentages	solve percent problems, find the percent of a number, find the number when the percent is known, discounts, markups, markdowns, percents, percentages
Math	9	9,C,32: Geometry: Basic Concepts	find formulas to solve measurement problems, find strategies for solving geometry problems, recognize and verify, where appropriate, geometric relationships of perpendicularity, parallelism, congruence, and similarity using algebraic strategies, use physical objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as representations of mathematical concepts
Math	9	9,C,33: Probability & Statistics	express probabilities as fractions or ratios, identify the probability, predict outcomes, normal statistical distributions, statistical models
Math	9	9,C,34: Problem Solving: Predicting Outcomes	probability, predicting, outcomes, least likely outcomes, most likely outcomes, data analysis
Math	9	9,C,35: Inequalities	solving inequalities, find the missing value, variables, use greater than symbols, use less than symbols
Math	9	9,C,36: Interpreting Graphs	interpret data, graphs, charts, data management, analyze data, line plots, bar graphs, scatter plots, model situations mathematically, using representations to draw conclusions and formulate new situations, use physical objects, diagrams, charts, tables, graphs, symbols, equations, or objects created using technology as representations of mathematical concepts, statistical models
Math	9	9,C,37: Determine Validity of Conclusions Drawn from Statistical Data	determine the reasonableness of a solution, use data to draw conclusions, use physical objects, diagrams, tables, graphs, symbols, equations, or objects created using technology as representations of mathematical concepts, statistical models
Math	9	9,C,38: Evaluate Reasonableness of Solutions	reasonable solution, estimation, problem solving, rounding, computation, model situations mathematically, using representations to draw conclusions and formulate new situations
Math	9	9,C,39: Matrices, Factoring, & Exponents	solve matrices problems, factor polynomials, use exponents, matrix operations, simplify functions, arithmetic operations with functions
Math	9	9,C,40: Cones	using coordinate graphs, parabolas, graphing equations, finding circumference of circles using coordinate conic sections
Math	9	9,C,41: Powers, Roots, & Absolute Values of Numbers	exponents, square roots, squares, determine absolute value of numbers, use integers
Math	9	9,C,42: Infinite, Converging, & Diverging Series	infinite geometric series, convergent series, divergent series, patterns, sequences, asymptotic behavior recursive patterns, explicative patterns

Math - Grade 9

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	9	9,C,43: Arithmetic & Geometric Sequences & Theories	arithmetic sequences, geometric sequences, patterns, recursive patterns, explicative patterns
Math	9	9,C,44: Properties	identify transitive property, identify reflexive property, identify distributive property, identify associate property, identify identity property, identify commutative property, understand and make connections among multiple representations of the same mathematical idea
Math	9	9,C,45: Variations	determine rate of change, use formulas, constant of variation (k)
Math	9	9,C,46: Transformations	transformations, reflections, translations, rotations, recognize and verify, where appropriate, geometric relationships of perpendicularity, parallelism, congruence, and similarity, using algebraic strategies
Math	9	9,C,47: Similarities & Congruence	identify congruent figures, identify similar figures, recognize and verify, where appropriate, geometric relationships of perpendicularity, parallelism, congruence, and similarity, using algebraic strategies
Math	9	9,C,48: Proofs, Binomial Theorem, & Sigma Notation	identify proofs and theorems, use proofs and theorems, use sigma notation, binomial theorem, use deductive reasoning, use inductive reasoning, formal logical reasoning, informal logical reasoning, conjectures, probability
Math	9	9,G,1: Graphing Functions & Relations	find the values of a function using graphs, locate the zeros of the function both algebraically and graphically, $f(x)$ for each x in the domain, select equations of straight lines from a given set of equations of linear and non-linear relations, investigate the effect of a relation on the graph and the formula by varying the conditions they represent
Math	9	9,G,2: Graphing Parameter Changes	graph parameter changes
Math	9	9,G,3: Graphing Equations	graph equations, graph linear equations and non-linear equations, analyze graphs of linear and non-linear equations, interpret the equation of a line using a graph
Math	9	9,G,4: Graphing Systems	graph systems of equations, graph systems of linear inequalities, graph systems of linear equations, analyze systems of equations, interpret systems of linear inequalities and equations using graphs
Math	9	9,G,5: Graphing Writing Descriptions	translate story problems into equations, translate story problems into graphs of equations, graph writing descriptions, translate statements into equations and graph, translate graphs into equations and word problems
Math	9	9,G,6: Linear Expressions	solve simple linear expressions, write linear expressions into statements, find values for linear expressions
Math	9	9,G,7: One-Variable Equations	solve simple one variable equations, find values for one variable equations, graph one variable equations, solve systems of one variable equations
Math	9	9,G,8: Systems of Equations	solve systems of equations, find values in systems of equations, graph systems of equations, solve systems of linear inequalities, graph systems of linear inequalities, find values for systems of linear inequalities
Math	9	9,G,9: Absolute Value	absolute value, find the absolute values in numbers, solve algebraic expressions involving absolute values

Math - Grade 9

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	9	9,G,10: Quadratic Equations I	solve quadratic equations by factoring or completing the square, understand and use the quadratic formula to find the roots of second-degree polynomials, solve quadratic equations using the quadratic formula, graphs, and algebraic methods, graph quadratic functions and know that their roots are the x-intercepts of the relations
Math	9	9,G,11: Polynomial Operations	polynomial operations, add polynomials, subtract polynomials, multiply polynomials, divide polynomials, solve problems using polynomials
Math	9	9,G,12: Polynomial Models	model polynomials using manipulatives, use concrete models to show polynomials, solve problems using polynomial models
Math	9	9,G,13: Rational Expressions	solve rational expressions, use rational numbers to solve algebraic expressions, solve algebraic rational expressions, rational expressions, algebraic expressions, linear expressions
Math	9	9,G,14: Radical Equations	solve radical equations, solve radical expressions, solve problems using radical expressions, radical numbers in polynomial expressions, radical numbers in polynomial equations
Math	9	9,G,15: Exponents	evaluate numerical expressions involving natural number exponents with rational number bases, use properties of exponents to generate the laws of exponents and apply them in problem-solving situations, determine the meaning of zero as an exponent
Math	9	9,G,16: Quadratic Equations II	apply quadratic functions to physical problems, investigate, describe, and predict the effects of changes in a variety of quadratic graphs, understand that the graphs of quadratic functions are affected by the coefficients of the function, determine the equation of a curve of best fit, quadratic equations, quadratic relations
Math	9	9,G,17: Right Triangles	right triangles, apply the Pythagorean theorem to right triangles, find the missing measures in right triangles, understand the relationship between the sides of right triangles to its hypotenuses
Math	9	9,G,18: Analyze & Solve One- & Two-Variable Situations	interpret one and two variable situations, solve one and two variable problem situations, solve multi-step equations for one variable with rational coefficient and constants
Math	9	9,G,19: Problem Solving & Probability	solve problems related to probability, use a variety of probability techniques to solve problems, find theoretical and experimental probability, problem solve using probability
Math	9	9,G,20: Problem Solving Proportions	use proportions to solve problems, find relationships in problems using proportions, use proportions to find missing measures in geometric figures, use proportions to solve problems related to similar figures, understand that proportions are made up of two ratios
Math	9	9,G,21: Problem Solving Analyze Data & Make Predictions	predict outcomes using data, make predictions using data, analyze data to make predictions
Math	9	9,G,22: Rational Numbers Operations	rational number operations, add rational numbers, subtract rational numbers, multiply rational numbers, divide rational numbers, solve problems related to rational number expressions, problem solve using rational number expressions and operations
Math	9	9,G,23: Value Of Variable	find the values of variables in equations and algebraic expressions, find the values for the domains and ranges of functions, find the values of variables in algebraic expressions

Math - Grade 9

Skills Detail

Subject	Grade Level	General Skills	Skills Detail
Math	9	9,G,24: Word Problem Into Equation	translate verbal expressions into equations, translate equations into verbal expressions, translate simple statements into equations, translate equations into word problems or simple statements
Math	9	9,G,25: Identify Graph Linear Equation	identify the linear equation corresponding with the graph of the equation, identify the graph of the equation, graph linear equations
Math	9	9,G,26: Value Of Function $f(x)$	find the value of function $f(x)$, find the domain of x in the function $f(x)$, function $f(x)$
Math	9	9,G,27: Equation Of Line	write the equation of a line, use $y = m(x) + b$ to write the equation of a line, graph the equation of a line $m(x) + b$, equation of a line
Math	9	9,G,28: Equation Of Line Knowing Points	find the values for each equation of a line, plot points on coordinate grid to determine the equation of a line, the equation of a line given the values
Math	9	9,G,29: Parallel/Perpendicular Lines Based On Equation	understand the concepts of parallel lines and perpendicular lines and how their slopes are related, find relationship among parallel and perpendicular lines and equations
Math	9	9,G,30: Solve Equations In Inequality Form	solve inequality equations, solve equations involving inequalities, graph inequality equations
Math	9	9,G,31: Point of Intersection For Equations	find the point of intersection for a system of linear equations, find the point of intersection for a system of linear inequalities, point of intersection and systems of equations
Math	9	9,G,32: Word Problem To Equation And Solve	use equations to solve word problems, use inequalities to solve word problems, translate word problem equations and solve, translate word problems into inequalities and solve
Math	9	9,G,33: Sum Two Polynomials	find the sum of two polynomials, solve problems related to finding the sum of two polynomials, add two polynomials
Math	9	9,G,34: Factors Of Polynomial	factor polynomials, polynomial factors, algebraic expressions and polynomial factors
Math	9	9,G,35: Factor Polynomials Using Perfect Square Method	square numbers and factoring, polynomials, factor polynomials and square roots, use perfect square method to factor polynomials
Math	9	9,G,36: Solution Set For Quadratic Equation	find values for quadratic equations, solution sets for quadratic equations, solve quadratic equations, solve quadratic relations, graph solution sets to quadratic equations
Math	9	9,G,37: Apply Quadratic Formula To Find Roots Of Equation	quadratic formula, apply quadratic formula, find roots of quadratic equations

Language Arts - Grade 2

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
LA	2	2,A,1: Editing	spelling, punctuation, capitalization errors, edit work, mechanics
LA	2	2,A,2: English Usage	verbs, verb tenses, consistent verb tense, grammar, usage
LA	2	2,A,3: Sentence Structure	complete sentences, sentence fragments, run ons
LA	2	2,A,4: Writing Sample Level 2	write, writing, stories, narrative, informational, respond
LA	2	2,A,5: Spelling Problems	misspelled words, sight words, spell common words
LA	2	2,A,6: Spelling Strategies	spelling, spell, misspell
LA	2	2,A,7: Capitalization	capitalize, first word, proper nouns, letters, mechanics, conventions
LA	2	2,A,8: Contractions & Possessives	contractions, possessives, apostrophe
LA	2	2,A,9: Punctuation	punctuation, end punctuation, commas, periods, question mark, exclamation point, mechanics, conventions
LA	2	2,A,10: Parts of Speech	parts of speech, noun, adjective, pronoun, verb
LA	2	2,A,11: Writing Process	write, prewriting, outline, draft, process, edit, revise, technology
LA	2	2,A,12: Singulars & Plurals	subject verb agreement, singular, plural, noun, verb
Read	2	2,B,1: Prefixes & Suffixes	prefixes, suffixes, root words, affixes, base
Read	2	2,B,2: Vocabulary & Context Clues	vocabulary, context clues, definition, multiple meaning
Read	2	2,B,3: Facts & Details	facts, details, factual recall, answer questions
Read	2	2,B,4: Sequencing	sequencing, chain of events, order, sequence, plot, chronology
Read	2	2,B,5: Following Directions	following directions, steps, order, sequence
Read	2	2,B,6: Story Setting	story setting, elements
Read	2	2,B,7: Stated Main Idea	main idea, literary elements
Read	2	2,B,8: Summarizing	summarize, write summaries, retell, paraphrase, summary
Read	2	2,B,9: Cause & Effect	cause & effect, cause/effect
Read	2	2,B,10: Predicting	predict, prediction
Read	2	2,B,11: Recognizing Emotional Reactions	emotional reactions, characterization, character, response, motives
Read	2	2,B,12: Factual Recall	factual recall, facts, answer questions, details
Read	2	2,B,13: Phonics & Phonemic Awareness I	phonics, phonemic, phonemes, beginning, medial, ending sounds, consonant, vowel, blends, pronunciation, digraphs, diphthongs, decode, silent e, double vowels, r-controlled, -le, letters

Language Arts - Grade 2

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
Read	2	2,B,14: Phonics & Phonemic Awareness II	phonics, phonemic, phonemes, beginning blends, consonant digraphs, medial, ending sounds, consonant blends, vowel blends, diphthongs, vowel digraphs, decode, r-controlled, short, double, silent, syllables
Read	2	2,B,15: Reading & Responding to Varied Texts & Genre	comprehension, story, respond genre, setting, character, details, answer questions
Read	2	2,B,16: Alphabetizing	alphabetize, abc order, alphabetical
Read	2	2,B,17: Rhyming Words & Word Families	rhyming words, word families, rhyme
Read	2	2,B,18: Appreciating Various Genre	genre, stories, nonfiction, poetry, fiction, how-tos, plays, ads, persuasion
Read	2	2,B,19: Audience & Purpose	audience, author's purpose point of view
Read	2	2,B,20: Figurative Language	figurative language, metaphors, similes, exaggeration, analogies
Read	2	2,B,21: Graphics	maps, charts, diagrams, tables, graphics
Read	2	2,B,22: Main Character	main character, characterization, motive, reaction, story elements
Read	2	2,B,23: Synonyms, Antonyms, Homophones, & Word Categories	synonyms, antonyms, homophones, category, categories
Read	2	2,B,24: Parts of a Book	parts of a book, cover, title page, author, illustrator, index, chapter, indices, copyright date, bibliography, glossary
Read	2	2,B,25: Dictionaries	dictionary skills, alphabetizing, definition, guide words, pronunciation
Read	2	2,B,26: Drawing Conclusions	drawing conclusions, inferences, implied

Language Arts - Grade 3

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
LA	3	3,A,1: Editing	spelling, punctuation, capitalization errors, edit work, mechanics
LA	3	3,A,2: English Usage	verb tense, grammar
LA	3	3,A,3: Sentence Structure I	sentence fragments, run ons, compound sentences
LA	3	3,A,4: Writing Samples Level 3	writing, write, respond, inform, entertain, multiple-paragraphs, compositions, narratives
LA	3	3,A,5: Spelling Problems	misspell, spelling, spell
LA	3	3,A,6: Spelling Strategies	misspell, spelling, spell
LA	3	3,A,7: Capitalization	capitalize, proper nouns, letters, mechanics, conventions
LA	3	3,A,8: Punctuation	punctuation, period, comma, exclamation point, apostrophe, mechanics, conventions
LA	3	3,A,9: Contractions & Possessives	contractions, possessive, apostrophe
LA	3	3,A,10: Parts of Speech	noun, verb, pronoun, adjective, conjunction, preposition parts of speech
LA	3	3,A,11: Writing Process	write, prewriting, outline, draft, edit, revise, process, technology
LA	3	3,A,12: Sentence Structure II	subject, predicate
LA	3	3,A,13: Singulars & Plurals	noun, verb, subject verb agreement
LA	3	3,A,14: Types of Sentences	sentence types, interrogative, declarative, exclamatory
Read	3	3,B,1: Prefixes & Suffixes	prefixes, suffixes, root words, affixes, base
Read	3	3,B,2: Vocabulary & Context Clues I	vocabulary, context clues, definition, multiple meaning
Read	3	3,B,3: Vocabulary & Context Clues II	vocabulary, context clues, definition, multiple meaning
Read	3	3,B,4: Facts & Details	facts, details, factual recall, answer questions
Read	3	3,B,5: Sequencing	sequencing, sequence, problem, solution, plot
Read	3	3,B,6: Following Directions	following directions, steps in process, order, sequence
Read	3	3,B,7: Story Setting	story setting, elements
Read	3	3,B,8: Main Idea	main idea
Read	3	3,B,9: Summarizing	summarize, summarizing, summaries
Read	3	3,B,10: Cause & Effect	cause, effect, relationship of events
Read	3	3,B,11: Predicting	predict, prediction
Read	3	3,B,12: Recognizing Emotional Reactions	emotional reactions, characterization, character, response, motives, element

Language Arts - Grade 3

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
Read	3	3,B,13: Factual Recall	factual recall, facts, answer questions, details
Read	3	3,B,14: Using Resource Materials	resource materials, thesaurus, dictionary, card catalog, sources
Read	3	3,B,15: Dictionary Skills	dictionary, guide words, alphabetizing, alphabetize
Read	3	3,B,16: Phonics & Phonemic Awareness	phonics, phonemic, phonemes, beginning blends, consonant digraphs, medial, ending sounds, consonant blends, vowel blends, diphthongs, vowel digraphs, decode, r-controlled
Read	3	3,B,17: Reading & Responding to Varied Texts & Genre	comprehension, story, understand, story elements, character, plot, setting, recall, genre
Read	3	3,B,18: Alphabetizing	alphabetize, abc order, alphabetical
Read	3	3,B,19: Appreciating Various Genre	Query: genre, nonfiction, stories, poetry, fiction, how-tos, plays, ads, persuasion
Read	3	3,B,20: Audience & Purpose	audience, purpose point of view
Read	3	3,B,21: Figurative Language	figurative language, metaphors, similes, exaggeration, analogies
Read	3	3,B,22: Graphics	graphic aids, maps, charts, diagrams, tables
Read	3	3,B,23: Main Character	main character, characterization, motive, reaction, elements
Read	3	3,B,24: Synonyms, Antonyms, Homophones, & Word Categories	synonyms, antonyms, homophones, word categories, categorize
Read	3	3,B,25: Drawing Conclusions	draw conclusions, inferences, implied
Read	3	3,B,26: Fact & Fiction	fact, fiction, genre, real, fantasy
Read	3	3,B,27: Fact & Opinion	fact, opinion
Read	3	3,B,28: Inference	inference, implied, draw conclusions
Read	3	3,B,29: Topic & Supporting Sentences	topic sentences, supporting details

Language Arts - Grade 4

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
LA	4	4,A,1: Capitalization	capital, names, proper adjectives, common, book titles, capitalize, mechanics
LA	4	4,A,2: Punctuation	commas, apostrophe, period, quotation marks, abbreviations, punctuation, mechanics, contraction, series, writing
LA	4	4,A,3: Spelling	spell, misspelled
LA	4	4,A,4: Editing	writing, edit, spelling, capitals, punctuation, error
LA	4	4,A,5: English Usage	verb tense, adjective, adverb, pronoun, usage, subject agreement, noun, singular, plural, proper, common, grammar, antecedent, possessive, action, helping, linking, comparative, superlative
LA	4	4,A,6: Sentence Structure	subject, predicate, combine sentences, run-ons, incomplete, fragments, verb, complete, revise, writing, grammar, clauses, phrases
LA	4	4,A,7: Writing Samples Level 4	write, writing, edit, draft, revise
LA	4	4,A,8: Spelling Strategies	spelling, misspell, errors, edit
LA	4	4,A,9: Contractions & Possessives	contraction, possessive, apostrophe, pronoun
LA	4	4,A,10: Parts of Speech	pronoun, referent, conjunction, preposition, verb, adverb, noun, adjective, parts of speech, usage
LA	4	4,A,11: Writing Process	narrative, advertisement, brainstorming, prewriting, outlining, drafting, revising, editing, revise, writing process, computer, technology
LA	4	4,A,12: Sentence Structure II	subject, predicate, sentence structure, grammar, verb
LA	4	4,A,13: Subject/Verb Agreement	subject verb agreement, action, helping, linking, tense
LA	4	4,A,14: Types of Sentences	statement, question, command, sentence, exclamation
LA	4	4,A,15: Prepositional Phrases	preposition
Read	4	4,B,1: Prefixes & Suffixes	prefix, suffix, affix, root, base
Read	4	4,B,2: Vocabulary & Context Clues I	vocabulary, context clues, word meaning strategies
Read	4	4,B,3: Vocabulary & Context Clues II	vocabulary, context clues, word meaning strategies
Read	4	4,B,4: Facts & Details	facts, details
Read	4	4,B,5: Sequencing	sequencing, sequence, events, order, plot, chronology, structure
Read	4	4,B,6: Following Directions	follow directions, sequence, details
Read	4	4,B,7: Story Setting	setting, story elements, place
Read	4	4,B,8: Stated Main Idea	main idea, stated

Language Arts - Grade 4

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
Read	4	4,B,9: Implied Main Idea	main idea, implied
Read	4	4,B,10: Summarizing	summary, summarize, main idea, paraphrase, summarizing
Read	4	4,B,11: Cause & Effect	cause, effect, cause & effect, cause/effect
Read	4	4,B,12: Graphics	illustrations, interpret, pictures, graphic aids
Read	4	4,B,13: Predicting	predict, prediction
Read	4	4,B,14: Drawing Conclusions	draw conclusions, inference, infer
Read	4	4,B,15: Recognizing Emotional Reactions	infer, characterization, feelings, motives, draw conclusions
Read	4	4,B,16: Fact & Opinion	fact, opinion
Read	4	4,B,17: Using Resource Materials	title page, table of contents, calendar, map, chart, globe, reference, resource
Read	4	4,B,18: Dictionary Skills	dictionary, guide words, alphabetize, ABC order, alphabet, alphabetical, reference, resource
Read	4	4,B,19: Reading & Responding to Varied Texts and Genre	fiction, details, nonfiction respond, genre, plot, comprehension, character, setting, story elements, problem, solution
Read	4	4,B,20: Appreciating Various Genres	genre, fiction, non-fiction, persuasion, advertisement
Read	4	4,B,21: Audience & Purpose	author's purpose, audience, inform, persuade, persuasion, entertain
Read	4	4,B,22: Figurative Language	metaphors, similes, exaggeration, analogies, figurative language, comparison, hyperbole
Read	4	4,B,23: Synonyms, Antonyms, & Homophones	synonyms, antonyms, homophones, analogy, analogies
Read	4	4,B,24: Drawing Conclusions	draw conclusions, inference, infer
Read	4	4,B,25: Topic & Supporting Sentences	topic sentence, details, main idea
Read	4	4,B,26: Outlines, Timelines, & Graphic Organizers	outline, timeline, graphics

Language Arts - Grade 5

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
LA	5	5,A,1: Capitalization	writing, capital, names, proper, common, title of respect, quotes, holiday, capitalize, mechanics
LA	5	5,A,2: Punctuation	writing, comma, quotation mark, series, question, parts letter, address, apostrophe, colon, period, mechanics, punctuation
LA	5	5,A,3: Spelling	spell, misspelled
LA	5	5,A,4: Editing	writing, edit, spelling, capitals, punctuation, error
LA	5	5,A,5: English Usage	verb tense, adjective, adverb, pronoun, usage, subject agreement, noun, grammar
LA	5	5,A,6: Sentence Structure	subject, predicate, combine sentences, run-ons, incomplete, fragments, verb, complete, conjunction, revise, writing
LA	5	5,A,7: Audience & Purpose	writing, audience, purpose, formal, informal
LA	5	5,A,8: Writing Samples Level 5	write, writing, edit, process, draft, revise, prompts
LA	5	5,A,9: Spelling Strategies	spelling, misspell, errors, edit
LA	5	5,A,10: Contractions & Possessives	contraction, possessive, apostrophe, pronoun
LA	5	5,A,11: Parts of Speech	pronoun, referent, conjunction, preposition, verb, adverb, noun, adjective, parts of speech,
LA	5	5,A,12: Writing Process	prewriting, outlining, drafting, revising, editing, revise, writing, process, narrative, persuasive technology
LA	5	5,A,13: Sentence Structure II	subject, predicate, sentence structure, grammar, verb
LA	5	5,A,14: Subject & Verb Agreement	subject verb agreement
LA	5	5,A,15: Types of Sentences	interrogative, declarative, exclamation, statement, command, question, sentence types
LA	5	5,A,16: Prepositional Phrases	preposition
Read	5	5,B,1: Prefixes & Suffixes	prefix, suffix, affix, root, base, word origins
Read	5	5,B,2: Vocabulary & Context Clues I	vocabulary, context clues, word meaning strategies
Read	5	5,B,3: Vocabulary & Context Clues II	vocabulary, context clues, word meaning strategies
Read	5	5,B,4: Facts & Details	facts, details
Read	5	5,B,5: Following Directions	follow directions, sequence, details
Read	5	5,B,6: Main Idea	main idea
Read	5	5,B,7: Summarizing	summary, summarize, main idea, paraphrase, summarizing
Read	5	5,B,8: Graphic Aids	map, picture, illustration, interpret, chart, graphic aids

Language Arts - Grade 5

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
Read	5	5,B,9: Factual Recall	fact, opinion, detail
Read	5	5,B,10: Setting	setting, story elements, place
Read	5	5,B,11: Sequencing	sequencing, sequence, events, order, plot, chronology
Read	5	5,B,12: Implied Main Idea	main idea, implied
Read	5	5,B,13: Cause & Effect	cause, effect, cause/effect, cause&effect
Read	5	5,B,14: Predicting	predict, prediction, inference, infer
Read	5	5,B,15: Drawing Conclusions	draw conclusions, inference, infer
Read	5	5,B,16: Recognizing Emotional Reactions	infer, characterization, feelings, motives, draw conclusions
Read	5	5,B,17: Making Generalizations	infer, characterization, feelings, motives, draw conclusions
Read	5	5,B,18: Using Resource Materials	title page, table of contents, index, reference, resource, glossary, encyclopedia, schedule
Read	5	5,B,19: Dictionary Skills	dictionary, guide words, alphabetize, ABC order, alphabet, alphabetical, reference, resource
Read	5	5,B,20: Reading & Responding to Varied Texts & Genre	details, follow directions, persuasive, narrative, nonfiction genres
Read	5	5,B,21: Appreciating Various Genre	genre, fiction, non-fiction, how-to, play, persuasion, newspaper
Read	5	5,B,22: Audience & Purpose	author's purpose, audience, inform, persuade, persuasion, entertain,
Read	5	5,B,23: Figurative Language	metaphors, similes, exaggeration, figurative language, personification
Read	5	5,B,24: Synonyms, Antonyms, Homophones	synonyms, antonyms, homophones, analogy
Read	5	5,B,25: Topic & Supporting Sentences	topic sentence, details, main idea
Read	5	5,B,26: Outlines, Timelines, & Graphic Organizers	outline, timeline, chart
Read	5	5,B,27: Fact & Opinion	fact, opinion
Read	5	5,B,28: Literary Devices	flashback, foreshadowing, suspense, symbolism, dialogue, oxymoron, literary devices, understatement
Read	5	5,B,29: Point of View	author's point of view

Language Arts - Grade 6

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
LA	6	6,A,1: Capitalization	capital, names, proper, common, title of respect, capitalization, writing, holidays, quotations, mechanics, conventions
LA	6	6,A,2: Punctuation	quotation marks, period, comma, apostrophe, mechanics, punctuation, writing, colon, conventions
LA	6	6,A,3: Spelling	spell, misspelled
LA	6	6,A,4: Editing	writing, edit, spelling, capitals, punctuation, error
LA	6	6,A,5: English Usage	verb tense, adjective, adverb, pronoun, usage, subject agreement, noun, grammar
LA	6	6,A,6: Sentence Structure	subject, predicate, combine sentences, run-ons, incomplete, fragments, verb, complete, conjunction, revise, writing, grammar
LA	6	6,A,7: Audience & Purpose	writing, audience, purpose, formal, informal
LA	6	6,A,8: Writing Samples	write, writing, edit, process, draft, revise
LA	6	6,A,9: Spelling Strategies	spelling, misspell, errors, edit
LA	6	6,A,10: Contractions & Possessives	contraction, possessive, apostrophe, pronoun
LA	6	6,A,11: Parts of Speech	parts of speech, adverb, adjective, verb, preposition, pronoun, noun, conjunctions
LA	6	6,A,12: Writing Process	prewriting, outlining, drafting, revising, editing, revise, writing, process, narrative, persuasive, technology
LA	6	6,A,13: Sentence Structure II	subject, predicate
LA	6	6,A,14: Subject & Verb Agreement	subject verb agreement
LA	6	6,A,15: Types of Sentences	interrogative, declarative, exclamation, statement, command, question, sentence types
LA	6	6,A,16: Phrases	prepositional, adverb, adjective
LA	6	6,B,1: Prefixes & Suffixes	prefix, suffix, affix, root, base, word origins
LA	6	6,B,2: Vocabulary & Context Clues I	vocabulary, context clues, word meaning strategies
LA	6	6,B,3: Vocabulary & Context Clues II	vocabulary, context clues, word meaning strategies
LA	6	6,B,4: Facts & Details	facts, details
Read	6	6,B,5: Sequencing	sequencing, sequence, events, order, plot, chronology
Read	6	6,B,6: Following Directions	follow directions, sequence, details
Read	6	6,B,7: Stated Main Idea	main idea, stated
Read	6	6,B,8: Implied Main Idea	main idea, implied, infer

Language Arts - Grade 6

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
Read	6	6,B,9: Summarizing	summary, summarize, main idea, paraphrase, summarizing
Read	6	6,B,10: Graphic Aids	illustration, picture, graph, diagram, graphic aids
Read	6	6,B,11: Cause & Effect	cause, effect, cause/effect, cause&effect
Read	6	6,B,12: Predicting	predict, prediction, inference, infer
Read	6	6,B,13: Drawing Conclusions	draw conclusions, inference, infer
Read	6	6,B,14: Making Inferences	infer, characterization, motives, draw conclusions
Read	6	6,B,15: Making Judgments	infer, characterization, feelings, motives, draw conclusions, judgment, making judgments
Read	6	6,B,16: Setting	setting, story elements, place
Read	6	6,B,17: Recognizing Emotions	infer, characterization, feelings, motives, draw conclusions
Read	6	6,B,18: Point of View & Purpose	author's purpose, entertain, persuade, inform
Read	6	6,B,19: Persuasion	author's purpose, persuade, persuasion
Read	6	6,B,20: Factual Recall	fact, details, opinion
Read	6	6,B,21: Using Resource Materials	atlas, table of contents, glossary, encyclopedia, card catalog, index, dictionary, resource, reference
Read	6	6,B,22: Reading & Responding to Varied Texts & Genres	details, follow directions, persuasive, narrative, nonfiction, genre
Read	6	6,B,23: Appreciating Various Genres	genre, fiction, non-fiction, persuasion, newspaper, advertisement
Read	6	6,B,24: Audience & Purpose	author's purpose, audience, inform, persuade, persuasion, entertain,
Read	6	6,B,25: Figurative Language	metaphors, similes, exaggeration, hyperbole, figurative language, personification, imagery
Read	6	6,B,26: Synonyms, Antonyms, & Homophones	synonyms, antonyms, homophones, analogy
Read	6	6,B,27: Topic & Supporting Sentences	topic sentence, details, main idea
Read	6	6,B,28: Outlines, Timelines, & Graphic Organizers	graphic organizer, outline, timeline, chart
Read	6	6,B,29: Fact & Opinion	fact, opinion
Read	6	6,B,30: Literary Devices	oxymoron, simile, exaggeration, hyperbole, literary devices, personification, metaphor
Read	6	6,B,31: Point of View	author's point of view
Read	6	6,B,32: Tone, Mood, & Style	tone, mood
Read	6	6,B,33: Referencing	almanac, atlas, encyclopedia, reference, resource, thesaurus, bibliography

Language Arts - Grade 7

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
LA	7	7,A,1: Capitalization	capital letters, proper, common, noun, titles, capitalize, mechanics, conventions, plagiarism
LA	7	7,A,2: Punctuation	colon, comma, semicolon, exclamation point, question mark, punctuation, mechanics, conventions
LA	7	7,A,3: Spelling	consonant blends, vowel digraphs, spelling, editing, misspelled
LA	7	7,A,4: Editing	spelling, punctuation, capitalization, editing, writing
LA	7	7,A,5: English Usage	verb tense, adjective, adverb, preposition, usage, pronoun, subject agreement, grammar
LA	7	7,A,6: Sentence Structure	combine sentences, run-on, punctuation, conjunctions, complete
LA	7	7,A,7: Audience & Purpose	formal, informal, audience, purpose
LA	7	7,A,8: Writing Samples	write, writing, edit, process, draft, revise
LA	7	7,A,9: Spelling Strategies	decode, spelling, misspell, errors, edit
LA	7	7,A,10: Contractions, Possession, Compounds	contractions, possessives, compound words
LA	7	7,A,11: Parts of Speech	noun, pronoun, verb, adverb, adjective, preposition, conjunction, parts of speech, usage
LA	7	7,A,12: Writing Process	prewriting, outlining, drafting, revising, editing, writing process, revise, technology
LA	7	7,A,13: Sentence Structure II	subject, predicate, modifier, complement, direct object, indirect object, sentence structure
LA	7	7,A,14: Types of Sentences	interrogative, declarative, exclamatory, imperative, sentence
LA	7	7,A,15: Phrases	prepositional, participle, gerund, appositive, infinitive, phrases
LA	7	7,A,16: Transitions	cause, effect, sequence, contrast, transition
Read	7	7,B,1: Prefixes, Suffixes	prefixes, suffixes, root, base, affix, origin
Read	7	7,B,2: Vocabulary & Context Clues I	context clues, vocabulary, meaning
Read	7	7,B,3: Vocabulary & Context Clues II	context clues, vocabulary, meaning
Read	7	7,B,4: Multiple Meaning Words	multiple meanings, prefixes, vocabulary, context clues
Read	7	7,B,5: Facts & Details	facts, details
Read	7	7,B,6: Sequencing	sequence, events, sequencing, order, plot, chronology
Read	7	7,B,7: Following Directions	directions, details
Read	7	7,B,8: Setting	setting, where, story elements
Read	7	7,B,9: Stated Main Idea	main idea, stated

Language Arts - Grade 7

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
Read	7	7,B,104: Fluency*	vocabulary, sequence, interpret, character, judgment, sustained reading, visual comprehension, skimming, scanning, fluency
Read	7	7,B,10: Implied Main Idea	main idea, inference
Read	7	7,B,112: Compare & Contrast*	compare, contrast, comparison, structure, similarities, differences
Read	7	7,B,113: Connecting Text to Personal Experience*	experience, personal, characters' decisions, problems, life experience
Read	7	7,B,115: Cultures in Literature*	colloquialism, jargon, slang, cultures, variety texts
Read	7	7,B,116: Purpose for Reading *	purpose for reading, pre-reading, prediction, focus
Read	7	7,B,11: Summarizing	summary, summarize, main idea, paraphrase, summarizing
Read	7	7,B,122: Shared Reading*	share, reading, experience, silent, groups, aloud, peers, discussion
Read	7	7,B,124: Post-Reading Strategies*	post reading, strategies, comprehension, after, critical thinking
Read	7	7,B,12: Cause & Effect	cause, effect, cause/effect, cause & effect
Read	7	7,B,130: Media Literacy*	media, viewer, oral communication, techniques, word processing, create media, analyze media, e-mail, portfolio, identify media types and techniques, produce media, literacy, advertisements, evaluate
Read	7	7,B,13: Predicting	predict, infer
Read	7	7,B,140: Reading Across the Curriculum*	content area reading, science, subject, vocabulary
Read	7	7,B,14: Graphic Aids	maps, charts, diagrams, graphic aids
Read	7	7,B,15: Making Inferences & Drawing Conclusions	inference, conclusion, infer
Read	7	7,B,16: Making Generalizations	generalize, generalization, character, infer
Read	7	7,B,17: Making Judgments	judgment, infer, judge, characterization, feelings, motives, draw conclusions
Read	7	7,B,18: Point of View & Purpose	author's purpose, point of view
Read	7	7,B,19: Factual Recall	factual, non-factual, fact, opinion
Read	7	7,B,20: Analyzing Poetry	poetry, poem
Read	7	7,B,21: Resource Materials	resource, table of contents, title page, bus schedule, telephone book, dictionary, reference
Read	7	7,B,22: Appreciating Various Genres	genres, newspaper article, drama, play, advertisement, fiction, nonfiction
Read	7	7,B,23: Figurative Language	simile, metaphor, personification, figurative language, comparison
Read	7	7,B,24: Synonyms & Antonyms	synonym, antonym, opposite

Language Arts - Grade 7

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
Read	7	7,B,25: Topic & Supporting Sentences	topic sentence, details, main idea
Read	7	7,B,26: Outlines, Timelines, & Graphic Organizers	outline, timeline, graphic organizer
Read	7	7,B,27: Fact & Opinion	fact, opinion
Read	7	7,B,28: Literary Devices	flashback, symbolism, idiom, analogy, personification, hyperbole, literary devices
Read	7	7,B,29: Tone, Mood, & Style	tone, mood, style
Read	7	7,B,30: Referencing	endnotes, bibliography, reference, thesaurus, dictionary, encyclopedia, table of contents, resource
Read	7	7,B,31: Denotative & Connotative Meaning	denotative, connotative, figurative language
Read	7	7,B,32: Descriptive Language	descriptive language, simile, metaphor, personification
Read	7	7,B,33: Literary Elements	elements, protagonist, antagonist, tone, mood, theme, literary
Read	7	7,B,34: Persuasion, Bias, Propaganda, & Stereotyping	persuasion, bias, propaganda, stereotype, persuade
Read	7	7,B,35: Research Process	research, topic, sources, skim, paraphrase, summarize, notetake, ask questions, organize

Language Arts - Grade 8

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
LA	8	8,A,1: Capitalization	capital letters, proper, common, noun, titles, capitalization, mechanics, conventions
LA	8	8,A,2: Punctuation	colon, comma, semicolon, exclamation point, question mark, punctuation, mechanics, conventions
LA	8	8,A,3: Spelling	consonant blends, vowel digraphs, spelling, editing, misspell
LA	8	8,A,4: Editing	edit, spelling, punctuation, capitalization errors
LA	8	8,A,5: English Usage	verb tense, adjective, adverb, preposition, usage, pronoun, subject agreement, grammar, conjunction
LA	8	8,A,6: Sentence Structure	combine sentences, run-on, punctuation, conjunctions, complete, grammar
LA	8	8,A,7: Audience & Purpose	formal, informal, audience, purpose
LA	8	8,A,8: Writing Samples	write, writing, edit, process, draft, revise
LA	8	8,A,9: Spelling Strategies	decode, spelling, misspell, errors, edit
LA	8	8,A,10: Contractions, Possessives, & Compounds	contractions, possessives, compound words
LA	8	8,A,11: Parts of Speech	noun, pronoun, verb, adverb, adjective, preposition, conjunction, parts of speech, usage
LA	8	8,A,12: Writing Process	prewriting, outlining, drafting, revising, editing, writing process, revise, keyboarding, technology
LA	8	8,A,13: Sentence Structure II	subject, predicate, modifier, direct object, indirect object, sentence structure, complement
LA	8	8,A,14: Types of Sentences	interrogative, declarative, exclamatory, imperative, sentence
LA	8	8,A,15: Phrases	prepositional, participle, gerund, appositive, infinitive, phrases
Read	8	8,A,16: Transitions	cause effect, sequence, contrast, transition
Read	8	8,B,1: Multiple Meaning Words	multiple meanings, prefixes, vocabulary, context clues
Read	8	8,B,2: Prefixes, Suffixes	prefixes, suffixes, root, base, affix, origin, word origins
Read	8	8,B,3: Vocabulary & Context Clues I	context clues, vocabulary, meaning
Read	8	8,B,4: Vocabulary & Context Clues II	context clues, vocabulary, meaning
Read	8	8,B,5: Facts & Details	facts, details
Read	8	8,B,6: Sequencing	sequence, events, sequencing, order, plot, chronology
Read	8	8,B,7: Following Directions	directions, details
Read	8	8,B,8: Stated Main Idea	main idea
Read	8	8,B,9: Implied Main Idea	main idea, inference implied

Language Arts - Grade 8

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
Read	8	8,B,10: Summarizing	summary, summarize, main idea, paraphrase, summarizing
Read	8	8,B,11: Cause & Effect	cause, effect, cause/effect, cause & effect
Read	8	8,B,12: Predicting	predict, infer
Read	8	8,B,13: Graphic Aids	maps, charts, diagrams, graphic aids
Read	8	8,B,14: Making Inferences & Drawing Conclusions	inference, conclusion, infer
Read	8	8,B,15: Generalizations	generalize, generalization, analyze, infer, character
Read	8	8,B,16: Judgments	infer, characterization, motives, draw conclusions, judge, making judgments
Read	8	8,B,17: Plot, Setting, Character, & Mood	plot, setting, character, mood, theme, tone, literary elements
Read	8	8,B,18: Point of View & Purpose	author's purpose, point of view
Read	8	8,B,19: Propaganda	persuasion, bias, propaganda, stereotype, persuade
Read	8	8,B,20: Factual Recall	factual, non-factual, fact, opinion
Read	8	8,B,21: Comparisons	compare, similar, alike, different
Read	8	8,B,22: Resource Materials	resource, table of contents, title page, bus schedule, telephone book, dictionary, reference
Read	8	8,B,23: Appreciating Various Genre	genre, poetry, poem, fiction, non-fiction, plays, advertisement, dialogue, magazine, purpose, persuade, poetry style, patterns
Read	8	8,B,24: Figurative Language	metaphors, similes, exaggeration, analogy, idioms, figurative language, onomatopoeia
Read	8	8,B,25: Synonyms & Antonyms	synonym, antonym, opposite
Read	8	8,B,26: Topic & Supporting Sentences	topic sentence, details, main idea
Read	8	8,B,27: Outlines, Timelines, & Graphic Organizers	outline, timeline, graphic organizer
Read	8	8,B,28: Fact & Opinion	fact, opinion
Read	8	8,B,29: Literary Devices	flashback, symbolism, idiom, analogy, personification, hyperbole, literary devices
Read	8	8,B,30: Tone, Mood, & Style	tone, mood, style
Read	8	8,B,31: Referencing	endnotes, bibliography, reference, thesaurus, dictionary, encyclopedia, table of contents, resource
Read	8	8,B,32: Denotative & Connotative Meaning	denotative, connotative, figurative language
Read	8	8,B,33: Descriptive Language	descriptive language, analogy, simile, metaphor, personification

Language Arts - Grade 8

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
Read	8	8,B,34: Persuasion, Bias, Propaganda, & Stereotyping	persuasion, bias, propaganda, stereotype, persuade
Read	8	8,B,35: Research Process	research, topic, sources, skim, paraphrase, summarize, questions, organize, present

Language Arts - Grade 9

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
LA	9	9,A,1: Capitalization	capital letters, noun, proper, common, titles, mechanics, conventions
LA	9	9,A,2: Punctuation	punctuation, apostrophe, exclamation mark, commas, mechanics, conventions
LA	9	9,A,3: Spelling	spelling, editing, misspell
LA	9	9,A,4: Editing	writing, edit, spelling, capitals, punctuation, error
LA	9	9,A,5: English Usage	verb tense, subject agreement, adjectives, adverbs, pronoun, usage, grammar
LA	9	9,A,6: Sentence Structure	combine sentences, run-on, punctuation, conjunctions, complete, grammar
LA	9	9,A,7: Formal & Informal Language Use	formal, informal, audience, purpose
LA	9	9,A,8: Writing Samples	write, writing, edit, process, draft, revise
LA	9	9,A,9: Spelling Strategies	spell, misspell, decode, spelling, errors, edit
LA	9	9,A,10: Writing Process	prewriting, outlining, drafting, revising, editing, writing process, revise, publish, keyboard, technology
Read	9	9,B,1: Multiple Meaning Words	word meaning, context clues, vocabulary
Read	9	9,B,2: Prefixes, Suffixes	prefixes, suffixes, root, base, affixes, word origins
Read	9	9,B,3: Vocabulary & Context Clues I	context clues, vocabulary, meaning
Read	9	9,B,4: Vocabulary & Context Clues II	context clues, vocabulary, meaning
Read	9	9,B,5: Facts & Details	facts, details
Read	9	9,B,6: Sequencing	sequence, events, sequencing, order, plot, chronology
Read	9	9,B,7: Following Directions	directions, details, instructions
Read	9	9,B,8: Stated Main Idea	main idea, stated
Read	9	9,B,9: Implied Main Idea	main idea, inference, implied
Read	9	9,B,10: Summarizing	summary, summarize, main idea, paraphrase, summarizing
Read	9	9,B,11: Cause & Effect	cause, effect, cause/effect, cause & effect
Read	9	9,B,12: Predicting	predict, infer, conclude
Read	9	9,B,13: Graphic Aids	graphic aids, diagram, maps, charts, graphs, tables
Read	9	9,B,14: Drawing Conclusions	inference, infer, conclusion
Read	9	9,B,15: Generalizations	generalize, infer, character feelings, motives
Read	9	9,B,16: Making Judgments	infer, characterization, motives, draw conclusions, making judgments, judge

Language Arts - Grade 9

Skills Detail

Subject	Grade Level	General Skill	Skills Detail
Read	9	9,B,17: Plot, Setting, Character, & Mood	plot, setting, character, mood, literary elements
Read	9	9,B,18: Point of View	author's point of view, author's purpose, author's reasons
Read	9	9,B,19: Propaganda	propaganda, advertisement, message
Read	9	9,B,20: Factual Recall	factual, non-factual, fact, opinion
Read	9	9,B,21: Resource Materials	glossary, title page, thesaurus, atlas, index, resources, reference
Read	9	9,B,22: Appreciating Various Genre	genre, fiction, non-fiction, plays, advertisement, persuade, inform, purpose, magazine, letter, persuasion
Read	9	9,B,23: Figurative Language	metaphors, similes, exaggeration, analogies, idioms, figurative language
Read	9	9,B,24: Synonyms & Antonyms	synonym, antonym, opposite
Read	9	9,B,25: Outlines, Timelines, & Graphic Organizers	outline, timeline, graphic organizers
Read	9	9,B,26: Literary Devices	flashback, foreshadowing, suspense, symbolism, dialogue, literary device
Read	9	9,B,27: Tone, Mood, & Style	tone, mood, style
Read	9	9,B,28: Referencing	endnotes, bibliographies, card catalog, reader's guide, reference
Read	9	9,B,29: Denotative & Connotative Meaning	connotation, denotation, meaning, figurative language
Read	9	9,B,30: Descriptive Language	metaphor, simile, analogy, poetry, hyperbole, descriptive language
Read	9	9,B,31: Persuasion, Bias, Propaganda, & Stereotyping	persuasion, bias, stereotype, propaganda, persuade, persuade
Read	9	9,B,32: Research Process	research, topic, note taking, sources, skim, paraphrase, summarize
Read	9	9,B,33: Theme	theme, summary