



Math K-1 CCRS Level A Alignment

College & Career Readiness Standards

Version: April 2017

Standard	Math K Lessons	Math 1 Lessons
Number and Operations: Base Ten		
Understand place value		6 Compare 1, 26 Compare 50, 33 Skip Count 5s and 10s, 35 Group 10s, 36 Compare 100
Use place value to add and subtract		40 Add Column 1-Digit, 41 Add 100 A, 42 Add 100 B, 48 Add Mental 10, 49 Sub Mental 10, 50 Add Sub Mental
Operations and Algebraic Thinking		
Add and subtract to solve word problems		51 Number Sent Ad Sub, 52 Word Prob Add Sub
Properties of operations		45 Subtract Missing Addend
Add and subtract to 20		8 Add Count Together, 9 Add Count On, 10 Decompose, 11 Add Facts 1s, 12 Add Facts 2s, 13 Add Facts 3s, 15 Add Count 3, 16 Add Facts 4s, 17 Add Facts 5s, 18 Add Facts 6s, 19 Add Count 6, 20 Add Facts 7s, 21 Add Facts 8s, 22 Add Facts 9s, 23 Add Facts 10s, 24 Add Count 10, 30 Add Challenge, 37 Hop Ahead A, 38 Hop Ahead B, 39 Add Make 10, 44 Sub Count Back, 46 Hop Back A, 47 Hop Back B
Work with addition and subtraction		6 Compare 10, 27 Number Sent Add, 51 Number Sent Add Sub
Geometry		
Analyze, compare, create, compose shapes	57 Compare Shapes	
Reason with shapes and their attributes		59 Compose Shapes
Measurement and Data		
Measure lengths and length units		55 Measure Length
Represent and interpret data		57 Collect Data Table



Math 2-3 CCRS Level B Alignment

College & Career Readiness Standards

Version: April 2017

Standard	Math 2 Lessons	Math 3 Lessons
Number and Operations: Base Ten		
Understand place value	7 Count to 1000, 8 Number Names, 10 Place Value, 11 Expanded Notation, 12 Comparison Basics	
Use place value to add and subtract	9 Group 10s, 27 Add Mental 10, 28 Subtract Mental 10, 29 Add Mental 100, 30 Subtract Mental 100, 33 Long Addition, 34 Add Column 2-Digit, 38 Subtraction, 41 Addition Properties	
Multi-digit arithmetic		8 Rounding, 17 Long Addition, 22 Subtraction, 29 Multiply by 10s
Numbers and Operations: Fractions		
Fractions as numbers		38 Early Fractions, 39 Fractions Number Line, 40 Equivalent Fractions, 42 Compare Fractions (*same denom)
Operations and Algebraic Thinking		
Add and subtract to solve word problems	40 Add Subtract Word Problems	
Add and subtract with 20	16–25 Add Facts 1 to 10, 31 Add Facts Challenge, 37 Subtract Missing Addend	
Multiplication and division		25 Multiply Basics, 26 Multiply Arrays, 32 Division Basics, 33 Division Unknown Factor, 34 Number Sentences, 35 Multiply Word Problems
Relationship between multiplication and division		33 Division Unknown Factor, 37 Multiplication Properties
Multiply and divide within 100		27 Mult Facts 1 to 5, 28 Mult Facts 6 to 10, 30 Mult Facts Challenge, 31 Multiply by 1 Digit, 33 Division Unknown Factor
Four operations, two-step problems		36 Multi-Step Word Problems, 44 Patterns
Geometry		
Reason with shapes and their attributes	45 Early Fractions, 58 Shapes	38 Early Fractions, 40 Equivalent Fractions, 54 Shapes
Measurement and Data		
Measure and estimate lengths	47 Measure Length, 48 Estimate Length, 49 Word Problems Length	
Add and subtract lengths	14 Add Count On, 36 Subtract Count Back	
Time, liquid, volumes, and masses		47 Measurement, 50 Telling Time
Represent and interpret data	54 Tables Graphs, 57 Charts Graphs	45 Measure Length, 51 Collect Data Table, 52 Table Graphs, 53 Charts Graphs
Area		55 Area Perimeter
Perimeter		55 Area Perimeter



Math 4-5, +6 CCRS Level C Alignment Page 1 of 2

College & Career Readiness Standards Version: April 2017

Standard	Math 4 Lessons	Math 5 Lessons	Math 6 Lessons
Number and Operations: Base Ten			
Place value, multi-digit whole numbers	1 Place Value, 2 Rounding, 3 Comparison, 14 Multiply 10s		
Place value, multi-digit arithmetic	5 Long Addition, 6 Add 4 2-Digit, 8 Subtraction, 15 Multiply 1-Digit, 16 Long Multiplication, 19 Long Division (*models)		
Place value system		1 Place Value, 12 Multiply 10s (*powers 10), 36 Decimal Basics, 37 Decimal Place Value, 38 Compare Decimals	
Operations, whole numbers and decimals to hundredths		14 Long Multiplication, 16 Division Basics, 17 Division Unknown Factor, 18 Long Division (* illustrate), 39 Add Decimals, 40 Multiply Decimals	
The Number System			
Factors and multiples			11 Long Division, 12 Factors Multiples, 13 Reduce Fractions, 14 Add Fractions, 18 Add Decimals, 19 Multiply Decimals
Multiply and divide fractions by fractions			15 Multiply Fractions, 16 Divide Fractions Problems
Number and Operations: Fractions			
Fraction equivalence and ordering	27 Equivalent Fractions, 35 Compare Fractions		
Build fractions	25 Fractions Intro, 32 Multiply Fractions, 33 Add Fractions Same Den, 36 Fractions Word Problems		
Fraction decimal notation	38 Decimal Place Value, 39 Compare Decimals		
Equivalent fractions, add and subtract		33 Add Fractions Diff Den, 32 Add Fractions Same Den, 35 Fraction Word Problems	
Multiply and divide fractions		26 Equivalent Fractions, 31 Multiply Fractions, 34 Compare Fractions, 35 Fractions Word Problems, 53 Area 5 (* Fractional Side Lengths)	
Ratios and Proportional Relationships			
Ratio concepts to solve problems			34 Ratio Proportions



Math 4-5, +6 CCRS Level C Alignment Page 2 of 2

College & Career Readiness Standards Version: April 2017

Standard	Math 4 Lessons	Math 5 Lessons	Math 6 Lessons
Operations and Algebraic Thinking			
Four operations to solve problems	10 Multiply Basics, 11 Multiply Arrays, 21 Multiply Word Problems, 22 Multi-Step Word Problems		
Factors and multiples	29 Factors Multiples, 30 Prime Numbers		
Generate and analyze patterns	40 Patterns		
Write and interpret numerical expressions		46 Translate Words Algebra, 47 Order of Operations	
Expressions and Equations			
Use arithmetic to algebraic expressions			21 Exponent Basics, 22 Algebra Terms, 23 Translate Words Algebra, 27 Add Like Terms, 28 Distributive, 29 Commutative Property, 30 Equivalent Expressions
One-variable equations and inequalities			7 Graph Inequalities, 23 Translate Words Algebra, 31 Equations True, 32 Solve 1-Step Equations, 33 Word Problems 1-Step
Dependent and independent variables			33 Word Problems, 35 Relations Tables Graphs
Geometry			
Lines and angles, shape properties	54 Lines, 55 Angle Basics		
Graph points on coordinate plane		48 Coordinate Graphs	
Classify two-dimensional figures		57 Triangles, 58 Polygons	
Area, surface area, volume			43 Polygon Areas, 49 Draw Polygons, 50 Nets Surface Area
Measurement and Data			
Convert measurements larger to smaller	22 Multi-Step Problems, 36 Fractions Word Problems, 45 Conversions, 46 Money Word Problems, 53 Area Perimeter		
Concepts of angle and measure angles	55 Angles Basics, 56 Angle Measure		
Convert like measurements		50 Conversions	
Represent and interpret data		25 Fractions Number Line	
Volume, relate to multiplication and to addition		54 Volume Prism 5	
Statistics and Probability			
Develop understanding of statistical variability			51 Statistics Basics, 53 Distribution Dot Plots, 54 Mean Median, 57 Variation MAD
Summarize and describe distributions			53 Distribution Dot Plots, 55 Histogram, 56 Box Whisker



Math +6, 7-8 CCRS Level D Alignment Page 1 of 3

College & Career Readiness Standards

Version: April 2017

Standard	Math 6 Lessons	Math 7 Lessons	Math 8 Lessons
The Number System			
Rational numbers	2 Negative Numbers, 3 Rational Numbers, 4 Number Line, 5 Fractions Number Line, 6 Coordinate Graphs, 7 Graph Inequalities, 8 Absolute Value, 49 Draw Polygons Coord Plane		
Fractions to add, subtract, multiply, divide rational numbers		2 Negative Numbers, 6 Signed Add Subtract, 7 Rational Add Subtract, 8 Signed Multiply Divide, 9 Rational Multiply Divide, 10 Compare Fractions Decimals, 11 Divide Fractions Problems, 12 Rational Word Problems	
Non-rational numbers			2 Irrational Numbers, 3 Square Roots
Solve problems with ratios	35 Relationships Tables Graphs, 36 Unit Rate 6, 37 Percent Basics, 38 Percent Problems, 39 Conversions		
Proportional relationships		33 Unit Rate 7, 34 Relations Tables Graphs, 35 Constant of Proportionality, 36 Ratios Proportions, 37 Proportion Graphs, 38 Percent Problems, 39 Proportion Word Problems	



Math +6, 7-8 CCRS Level D Alignment Page 2 of 3

College & Career Readiness Standards

Version: April 2017

Standard	Math 6 Lessons	Math 7 Lessons	Math 8 Lessons
Expressions and Equations			
Use properties of operations to generate equivalent expressions		21 Expressions Rational Coeff, 22 Rewrite Expressions	
Word problems with algebraic expressions and equations		23 Fractions Word Problems, 24 Multi-Step Rational Problem, 26 Solve Equations, 27 Rate, 28 Linear Word Problems, 29 Solve Inequal, 30 Graph Inequal, 31 Inequal Word Problems	
Radicals and integer exponents			3 Square Roots, 4 Exponent Basics, 5 Exponent Rules, 6 Square Root Equations, 7 Scientific Notation, 8 Scientific Operations, 9 Scientific Comparison
Proportions, lines, and linear equations			22 Parallel Perpendicular, 28 Slope Unit Rate, 29 Proportion Word Problems, 31 Graphing Calculator
Linear equations			14 Solve Equations, 15 Equation Solutions, 32 Systems Graphing, 33 Systems Substitution, 34 Systems Problems
Functions			
Define, evaluate, and compare functions			16 Linear Equations, 18 Points on a Line, 19 Line Graphs, 35 Functions Relations, 36 Functions Notation, 38 Non-Linear Graphs
Use functions to model relationships between quantities			21 Slope Intercept, 38 Non-Linear Graphs, 39 Model Linear Functions
Geometry			
Scale drawings		42 Scale Drawings	
Angle, measure, area, surface area, and volume problems		45 Circles, 46 Angles, 47 Solid Figures	
Congruence and similarity			46 Congruent Figures, 48 Similar Figures, 49 Triangle Arguments
Pythagorean Theorem			51 Pythagorean Problems, 52 Pythagorean Distance



Math +6, 7-8 CCRS Level D Alignment Page 3 of 3

College & Career Readiness Standards

Version: April 2017

Standard	Math 6 Lessons	Math 7 Lessons	Math 8 Lessons
Statistics and Probability			
Summarize and describe distributions	51 Statistics Basics		
Random sampling		50 Sample Populations, 51 Sample Inferences	
Comparative inferences about two populations		52 Distribution Overlap, 53 Distribution Inferences	
Probability models		54 Probability Basics, 55 Probability Data, 56 Probability Model Uniform, 57 Probability Model Non Uniform, 58 Compound Events, 59 Tables, Tree Diagrams	
Bivariate data			54 Scatterplots, 55 Scatterplots Create, 56 Linear Fit, 57 Linear Model Problems, 58 Two-Way Tables



Math 7-8 Algebra CCRS Level E Alignment Page 1 of 2

College & Career Readiness Standards

Version: April 2017

Standard	Math 7 Lessons	Math 8 Lessons	Algebra Lessons
Number and Quantity: The Real Number System			
Rational exponents		3 Exponent Rules	3 Exponent Rules 55 Radical Expressions
Number and Quantity: Quantities			
Quantitative reasoning and use units	33 Unit Rates 7	28 Slope Unit Rate	26 Rate Problems
Algebra: Seeing Structure in Expressions			
Interpret the structure of expressions	14 Algebra Terms Language, 16 Order of Operations, 18 Add Like Terms, 19 Distributive Property, 20 Commutative Associative, 21 Expressions Rational Coeff		1 Algebra Terms Language, 4 Add Like Terms, 5 Distributive Property, 6 Commutative Associative, 7 Order of Operations
Write expressions in equivalent forms	22 Rewrite Expressions		12 Solve Equations
Algebra: Arithmetic with Polynomials and Rational Expressions			
Perform arithmetic operations on polynomials			33 Polynomial Basics, 35 Add Polynomials, 36 Subtract Polynomials, 37 Multiply Polynomials, 38 Divide Monomials
Rewrite rational expressions			47 Rational Expressions, 48 Rational Multiply Add
Algebra: Creating Equations			
Create equations		39 Model Linear Functions	11 Translate Words Algebra, 13 Linear Equations
Algebra: Reasoning with Equations and Inequalities			
Explain problem-solving reasoning		59 Performance Problem	59 Logic Validity
Equations and inequalities in one variable	29 Solve Inequalities, 31 Inequalities Word Problems		12 Solve Equations
Systems of equations		33 Systems Substitution, 34 Systems Problems	30 Solve systems Graphing 31 Systems Substitution 31 Systems Add Eliminate
Graph equations and inequalities	30 Graph Inequalities		14 Graph by intercept 16 Slope of a Line 24 Graph Inequalities



Math 7-8 Algebra CCRS Level E Alignment Page 2 of 2

College & Career Readiness Standards

Version: April 2017

Standard	Math 7 Lessons	Math 8 Lessons	Algebra Lessons
Functions: Interpreting Functions			
Function notation		36 Function Notation	28 Function Notation
Interpret functions			54 Quadratic Word Problems
Different representations of functions		11 Relations Tables Graphs	10 Relations Tables Graphs
Functions: Building Functions			
Build a function between two quantities		39 Model Linear Functions	54 Quadratic Word Problems
Functions: Linear, Quadratic, and Exponential Models			
Linear, quadratic, and exponential models		11 Relations Tables Graphs	49 Quadratic Graphing, 50 Quadratic Factoring, 51 Quadratic Square Root, 52 Quad Complete Square, 53 Quadratic Formula, 54 Quadratic Word Problems, 57 Exponential Functions
Interpret expressions for functions		39 Model Linear Functions	13 Linear Equations 57 Exponential Functions
Geometry: Congruence			
Transformations in the plane		44 Symmetry & Transforms, 45 Symmetry Lab, 46 Congruent Figures, 47 Coordinate Symmetry	
Geometry: Similarity, Right Triangles, and Trigonometry			
Prove theorems involving similarity			
Geometry: Geometric Measurement and Dimension			
Volume formulas		53 Solid Figures	
Geometry: Modeling with Geometry			
Geometric concepts in modeling situations			
Statistics and Probability: Interpreting Categorical and Quantitative Data			
Single count or measurable variable	48 Distribution, 49 Summarize Data		
Two categorical and quantitative variables		54 Scatterplots, 55 Scatterplots Create, 58 Two-Way Tables	
Interpret linear models		56 Linear Fit, 57 Linear Model Problems	