MATHLINKS: GRADE 6

(This Scope and Sequence is a <u>DRAFT</u>. The program will be available in Fall 2015.)

Packet	Lesson 1	Lesson 2	Lesson 3	Content Standards
1	Applying Properties of Arithmetic	Division with Remainder	Multiplication & Division: Standard Algorithms	4NBT.5, 6 5.NBT.2, 5, 6 6.NS.2; 6.EE.2b
2	Factors and Multiples	GCF and LCM	Numerical Expressions	6.NS.4 6.EE.1, 2b
3	Fraction Strips	Ordering Fractions on a Number Line	Renaming Fractions	4.NF.1, 2
4	Fractions and Decimals	Decimal Place Value and Number Lines	Fraction, Decimal, and Percent Gardens	4.NF.6 5.NBT.1, 3ab 6.RP.3c
5	Name Scores	Data Displays	Data Surveys	6.SP.1, 2, 3, 4, 5abcd
6	Equivalent Fractions	Fraction Addition	Fraction Subtraction	5.NF.1, 2 6.NS.4
7	Fraction Multiplication	Fraction Division 1	Fraction Division 2	5.NF4ab, 6, 7abc 6.NS.1
8	A Checking Account	Decimal Multiplication	Decimal Division	5.NBT.1, 2, 4-7 6.NS.2, 3
9	Introduction to Variables and Expressions	Equations	Inequalities	6.NS.3 6.EE.2abc, 3-8
10	Numerical and Variable Expressions	Equation Solving Strategies	Solving Equations with Fractions and Decimals	6.NS.3 6.EE.1, 2ab, 3-7
11	Ratios	Unit Rates	Ratio and Unit Rate Problems	6.RP.1, 2, 3ab
12	Measurement Conversions	Understanding Percents of Numbers	Percent Problems	6.RP.3cd
13	Areas of Polygons	Volume	Surface Area	6.EE.2ac, 4 6.G. 1, 2, 4
14	Integers	Opposites and Absolute Value	Rational Numbers	6.NS.5, 6ac, 7abcd 6.EE.8
15	Graphing Points with Integer Coordinates	Graphing Points with Rational Coordinates	Reflections	6.NS.6abc, 8 6.G.3
16	Saving for a Purchase	Best Buy Problems	Painting a Room	6.RP2, 3abcd 6.EE.4, 6, 9 6.G.4

The Number System (NS)	Ratios and Proportional Relationships (RP)	Expressions and Equations (EE)	Geometry (G)	Statistics and Probability (SP)

MATHLINKS: GRADE 7

(This Scope and Sequence is a <u>DRAFT</u>. The program will be available in Fall 2015.)

Packet	Lesson 1	Lesson 2	Lesson 3	Content Standards
1	Terminating Decimals	Repeating Decimals	Graphing Fractions and Decimals	4NBT.5, 6 5.NBT.2, 5, 6 6.NS.2 6.EE.2b
2	Integers and the Number Line	Opposites and Absolute Value	Rational Numbers and the Number Line	6.NS.4 6.EE.1, 2b
3	Integer Models	Addition: Counters & Temperature	Subtraction: Counters & Temperature	4.NF.1, 2
4	Addition on the Number Line	Subtraction on the Number Line	Addition & Subtraction: Rational Numbers	4.NF.6 5.NBT.1, 3ab 6.RP.3c
5	Multiplication: Models	Multiplication and Division: Patterns	Reasoning About Products & Quotients	6.SP.1, 2, 3, 4, 5abcd
6	Order of Operations	Ratios of Fractions	Multiplication & Division: Rational Numbers	5.NF.1, 2 6.NS.4
7	Introduction to Probability	Spinners	Flips, Rolls, and Fair Games	5.NF4ab, 6, 7abc 6.NS.1
8	Equivalent Expressions	Hundreds Chart Patterns	Polygon Area Puzzle	5.NBT.1, 2, 4-7 6.NS.2, 3
9	Solving Equations: Mental Math Strategies	Solving Equations: Balance Strategies	Solving Equations with Rational Coefficients	6.NS.3 6.EE.2abc, 3-8
10	Linear Inequalities	Solving Linear Inequalities	Inequality Problems	6.NS.3 6.EE.1, 2ab, 3-7
11	Proportional Reasoning	Rate Problems	Best Buy Problems	6.RP.1, 2, 3ab
12	Percent Increase and Decrease	Simple Interest	Sales and Commissions	6.RP.3cd
13	Introduction to Sampling	Comparing Samples	Fish in a Lake	6.EE.2ac, 4 6.G. 1, 2, 4
14	Angle Measurements	Angle Explorations	Drawing Triangles and Quadrilaterals	6.NS.5, 6ac, 7abcd 6.EE.8
15	Scale Drawings	Circumference of Circles	Area of Circles	6.NS.6abc, 8 6.G.3
16	Problems Involving Plane Figures	Problems Involving Solid Figures	Cross Sections of Solid Figures	6.RP2, 3abcd 6.EE.4, 6, 9 6.G.4

The Number System (NS)	Ratios and Proportional Relationships (RP)	Expressions and Equations (EE)	Geometry (G)	Statistics and Probability (SP)

MATHLINKS: GRADE 8

(The California Board of Education adopted this program in Winter 2014.)

Packet	Lesson 1	Lesson 2	Lesson 3	Content Standards
1	Integer Operations: Patterns	Integer Operations: A Counter Model	Order of Operations	6.NS.5, 7c 6.EE.2c 7.NS.1ac, 2c
2	Exploring Expressions	Exploring Equations	Mental Equations and Inequality Strategies	6.EE.2ac,5,6,7,8 7.EE.4a
3	Geometric Patterns	Number Patterns	Saving for a Purchase	8.EE.8ac 8.F.2, 3, 4
4	Growing Shapes	Going to the Park	Stacking Cups	8.EE.5, 8ac 8.F.2, 3, 4, 5 8.SP.2, 3
5	Cups and Counters Expressions	Number Tricks 1	Cups and Counters Equations 1	6.EE.3, 4, 5, 6, 7 7.EE.4a 8.EE.7ab
6	Cups and Counters Equations 2	Solving Equations with Integer Coefficients	Solving Equations with Rational Coefficients	7.EE.1, 4a 8.EE.7ab
7	Introduction to Functions	Rate Graphs	Best Buy Problems	6.Rp.3a 7.RP.2bcd 8.EE5 8.F.1, 2, 3, 4, 5
8	Introduction to Slope	Input-Output Investigation	Slope-Intercept Form	8.F.2, 3, 4 8.EE.6
9	Solving Linear Systems by Graphing	Solving Linear Systems by Substitution	Solving Linear Systems by Elimination	8.EE.8abc 8.F.2, 3, 4
10	Categorical Data	Numerical Data	Lines of Best Fit	8.F.4 8.SP.1, 2, 3 ,4
11	Squares and Square Roots	Conjectures about Exponents	Large and Small Numbers	8.NS.2 8.EE.1, 2, 3, 4
12	Angles and Triangles	Parallel Lines	The Pythagorean Theorem	8.EE.2 8.G.5, 6, 7, 8
13	Translations	Rotations	Reflections	8.F.1 8.G.1abc, 3
14	Congruence	Dilations	Similarity	8.G.2, 3, 4, 7
15	Similar Triangles	Volume of Cylinders	Volume of Cones and Spheres	8.NS.2 8.EE.6 8.G.5, 6, 9
16	Exponents and Roots Revisited	Rational Numbers	Irrational Numbers	7.SP.6, 7a, 8b 8.NS.1, 2 8.EE.1, 2, 3, 4

Review	Equations and Inequalities (EE)	Linear Functions (F)	Statistics (SP)	Number Sense, Exponents, Roots (NS)	Geometry (G)