ORIGO STEPPING STONES 2.0

Grade 6 and the CCSS
June 2017

BY LESSON

Lesson	Title	Math Content			
1.1	Number: Reviewing whole numbers	6.NS.C.5	6.EE.A.1		
1.2	Number: Reviewing fractions	6.NS.C.5			
1.3	Number: Reviewing abbreviations for numbers greater than one million	6.NS.C.5			
1.4	Number: Using exponents greater than 2	6.NS.C.5			
1.5	Number: Introducing positive and negative numbers	6.NS.C.5	6.NS.C.6	6.NS.C.6c	
1.6	Number: Interpreting the negative symbol	6.NS.C.5	6.NS.C.6	6.NS.C.6a	6.NS.C.6c
1.7	Number: Comparing and ordering positive and negative numbers	6.NS.C.5 6.NS.C.7a	6.NS.C.6 6.NS.C.7b	6.NS.C.6c	6.NS.C.7
1.8	Number: Introducing absolute value	6.NS.C.5 6.NS.C.7c	6.NS.C.6 6.NS.C.7d	6.NS.C.6c	6.NS.C.7
1.9	Number: Using the 1st and 2nd quadrants of the coordinate plane	6.NS.C.6	6.NS.C.6c	6.NS.C.8	
1.10	Number: Using all quadrants of the coordinate plane	6.NS.C.6 6.G.A.3	6.NS.C.6b	6.NS.C.6c	6.NS.C.8
1.11	Number: Calculating distance on the coordinate plane	6.NS.C.6	6.NS.C.6c	6.NS.C.8	6.G.A.3
1.12	Number: Exploring reflections on the coordinate plane	6.NS.C.6 6.G.A.3	6.NS.C.6b	6.NS.C.6c	6.NS.C.8
2.1	Algebra: Reviewing language and conventions	6.EE.A.2	6.EE.A.2b		
2.2	Algebra: Reviewing language and conventions	6.EE.A.2	6.EE.A.2c		
2.3	Algebra: Order of operations involving exponents	6.EE.A.1	6.EE.A.2	6.EE.A.2c	
2.4	Algebra: Order of operations involving common fractions and mixed numbers	6.EE.A.1	6.EE.A.2	6.EE.A.2c	
2.5	Number: Reviewing factors and multiples	6.NS.B.4			
2.6	Number: Finding the least common multiple	6.NS.B.4			
2.7	Number: Finding the greatest common factor	6.NS.B.4			
2.8	Algebra: Using the distributive property	6.NS.B.4	6.EE.A.2		
2.9	Addition/subtraction: Using the standard algorithm (decimal fractions)	6.NS.B.3			
2.10	Multiplication: Using the standard algorithm (one-digit whole numbers and decimal fractions)	6.NS.B.3			
2.11	Multiplication: Using the standard algorithm (two-digit whole numbers and decimal fractions)	6.NS.B.3			
2.12	Multiplication: Using the standard algorithm (decimal fractions)	6.NS.B.3			
3.1	Ratio: Introducing ratio	6.RP.A.1			
3.2	Ratio: Building equivalent ratios pictorially	6.RP.A.1			
3.3	Ratio: Examining equivalence using tables	6.RP.A.3	6.RP.A.3a		
3.4	Ratio: Exploring ratios on the coordinate plane	6.RP.A.3	6.RP.A.3a		
3.5	Ratio: Calculating and identifying equivalent ratios	6.RP.A.3	6.RP.A.3a		
3.6	Ratio: Interpreting part-part and part-whole situations	6.RP.A.1			
3.7	Ratio: Solving word problems with part-part and part-whole situations	6.RP.A.3	6.RP.A.3a		
3.8	Division: Reviewing the standard algorithm	6.NS.B.2	6.NS.B.3		
3.9	Division: Exploring remainders	6.NS.B.2	6.NS.B.3		
3.10	Division: Terminating and repeating decimal fractions	6.NS.B.2	6.NS.B.3		
3.11	Division: Adjusting to divide a whole number by a decimal fraction	6.NS.B.3			
3.12	Division: Adjusting to divide with decimal fractions	6.NS.B.2 6.NS.B.3			

BY LESSON

Lesson	Title	Math Content			
4.1	Algebra: Writing expressions to match word problems	6.EE.A.2	6.EE.A.2a	6.EE.A.2b	6.EE.B.6
4.2	Algebra: Writing equations to match word problems	6.EE.B.7			
4.3	Algebra: Writing equations with two variables	6.EE.A.2	6.EE.A.2a	6.EE.B.6	
4.4	Algebra: Evaluating expressions given the value of the variable	6.EE.A.2	6.EE.A.2a	6.EE.A.2c	6.EE.B.6
4.5	Algebra: Order of operations involving variables	6.EE.A.1 6.EE.B.6	6.EE.A.2	6.EE.A.2a	6.EE.A.2c
4.6	Algebra: Solving equations given a set of possible values	6.EE.A.1 6.EE.B.5	6.EE.A.2 6.EE.B.7	6.EE.A.2a	6.EE.A.2c
4.7	Algebra: Reviewing patterns and rules	6.EE.C.9			
4.8	Algebra: Interpreting tables	6.EE.C.9			
4.9	Algebra: Investigating number patterns and rules	6.EE.C.9			
4.10	Algebra: Exploring different representations of patterns	6.EE.C.9			
4.11	Algebra: Identifying independent and dependent variables	6.EE.C.9			
4.12	Algebra: Backtracking to solve equations	6.EE.C.9			
5.1	Division: Interpreting division situations	6.NS.A.1			
5.2	Division: Common fractions (same denominators)	6.NS.A.1			
5.3	Division: Common fractions (related denominators)	6.NS.A.1			
5.4	Division: Whole numbers by common fractions	6.NS.A.1			
5.5	Division: Whole numbers by common fractions (with remainders)	6.NS.A.1			
5.6	Division: Common fractions by common fractions (unrelated denominators)	6.NS.A.1			
5.7	Division: Consolidating strategies	6.NS.A.1			
5.8	Ratio: Comparing ratios in tables	6.RP.A.3	6.RP.A.3a		
5.9	Ratio: Comparing ratios in tables and graphs	6.RP.A.3	6.RP.A.3a		
5.10	Ratio: Using a given ratio when the total is known	6.RP.A.3			
5.11	Ratio: Using a given ratio when total is unknown	6.RP.A.3			
5.12	Ratio: Working with measurement	6.RP.A.3	6.RP.A.3d		
6.1	Area: Exploring parallelograms	6.G.A.1			
6.2	Area: Using a formula for parallelograms	6.G.A.1			
6.3	Area: Exploring right triangles	6.G.A.1			
6.4	Area: Using a formula for triangles with height inside	6.G.A.1			
6.5	Area: Using a formula for triangles with height inside or outside	6.G.A.1			
6.6	Area: Calculating the area of any quadrilateral	6.G.A.1			
6.7	Area: Calculating the area of any polygon	6.G.A.1			
6.8	Ratio: Developing the concept of rate	6.RP.A.2	6.RP.A.3	6.RP.A.3b	
6.9	Ratio: Identifying rates	6.RP.A.2	6.RP.A.3	6.RP.A.3b	
6.10	Ratio: Rates with whole numbers and fractions	6.RP.A.2	6.RP.A.3	6.RP.A.3b	
6.11	Ratio: Working with rates in two directions	6.RP.A.2	6.RP.A.3	6.RP.A.3b	
6.12	Ratio: Comparing rates	6.RP.A.2	6.RP.A.3	6.RP.A.3b	

Lesson	Title	Math Content			
7.1	Algebra: Simplifying expressions	6.EE.A.3	6.EE.A.4		
7.2	Algebra: Simplifying expressions using the commutative and associative properties	6.EE.A.3	6.EE.A.4		
7.3	Algebra: Simplifying expressions using the distributive property	6.EE.A.3	6.EE.A.4		
7.4	Algebra: Simplifying expressions with more than one variable	6.EE.A.3	6.EE.A.4		
7.5	Algebra: Introducing balance to solve addition equations	6.EE.A.5			
7.6	Algebra: Solving addition equations	6.EE.B.7			
7.7	Algebra: Solving subtraction equations	6.EE.B.6			
7.8	Algebra: Solving multiplication equations	6.EE.B.7			
7.9	Algebra: Solving division equations	6.EE.B.6			
7.10	Algebra: Solving word problems (addition and multiplication)	6.EE.B.6	6.EE.B.7		
7.11	Algebra: Solving word problems (subtraction and division)	6.EE.B.6			
7.12	Algebra: Solving word problems (all operations)	6.EE.B.6	6.EE.B.7		
8.1	Ratio: Linking part-whole ratios to fractions	6.RP.A.1	6.RP.A.3	6.RP.A.3a	
8.2	Ratio: Relating fraction representations of ratio	6.RP.A.1	6.RP.A.3	6.RP.A.3a	
8.3	Ratio: Introducing percentage (area model)	6.RP.A.3	6.RP.A.3c		
8.4	Ratio: Consolidating percentage (number line model)	6.RP.A.3	6.RP.A.3c		
8.5	Ratio: Simple percentages of quantities	6.RP.A.3	6.RP.A.3c		
8.6	Ratio: Percentages of collections	6.RP.A.3	6.RP.A.3c		
8.7	Ratio: Percentages of numbers less than ten	6.RP.A.3	6.RP.A.3c	6.RP.A.3d	
8.8	Ratio: Using unit percentages	6.RP.A.3	6.RP.A.3c		
8.9	Ratio: Finding the whole given a part and the percentage	6.RP.A.3	6.RP.A.3c		
8.10	Division: Introducing the invert-and-multiply method (common fractions)	6.NS.A.1			
8.11	Division: Consolidating the invert-and-multiply method (common fractions)	6.NS.A.1			
8.12	Division: Consolidating strategies (common fractions)	6.NS.A.1			
9.1	Algebra: Reviewing inequalities	6.EE.B.8			
9.2	Algebra: Showing inequalities on a number line	6.EE.B.8			
9.3	Algebra: Identifying the range of possible values for an inequality	6.EE.B.8			
9.4	Algebra: Working with inequalities	6.EE.B.8			
9.5	Statistics: Introducing statistics	6.SP.A.1 6.SP.B.5b	6.SP.B.4	6.SP.B.5	6.SP.B.5a
9.6	Statistics: Identifying the mode	6.RP.A.3 6.SP.B.4	6.RP.A.3c 6.SP.B.5	6.SP.A.2 6.SP.B.5a	6.SP.A.3 6.SP.B.5b
9.7	Statistics: Calculating the median	6.SPA.A.2 6.SP.B.5a	6.SP.A.3 6.SP.B.5b	6.SP.B.4 6.SP.B.5c	6.SP.B.5 6.SP.B.5d
9.8	Statistics: Calculating the mean	6.SP.A.2 6.SP.B.5b	6.SP.A.3 6.SP.B.5c	6.SP.B.5	6.SP.B.5a
9.9	Area: Using nets to calculate surface area of prisms	6.G.A.4			
9.10	Area: Using nets to calculate surface area of pyramids	6.G.A.4			
9.11	Area: Calculating surface area of prisms and pyramids	6.G.A.4			
9.12	Area: Solving word problems	6.G.A.4			

Lesson	Title	Math Content			
10.1	Statistics: Measuring viability using mean and absolute deviation	6.SP.A.3	6.SP.B.5	6.SP.B.5c	
10.2	Statistics: Measuring viability using quartiles and interquartile range	6.SP.A.3	6.SP.B.4	6.SP.B.5	6.SP.B.5c
10.3	Statistics: Introducing box plots	6.SP.A.3	6.SP.B.4	6.SP.B.5	6.SP.B.5c
10.4	Statistics: Consolidating box plots	6.SP.A.3	6.SP.B.4	6.SP.B.5	6.SP.B.5c
10.5	Statistics: Introducing histograms	6.SP.B.4	6.SP.B.5	6.SP.B.5a	
10.6	Statistics: Analyzing and creating histograms	6.SP.B.4	6.SP.B.5	6.SP.B.5a	6.SP.B.5c
10.7	Statistics: Working with histograms	6.SP.B.4	6.SP.B.5	6.SP.B.5a	
10.8	Volume: Reviewing volume	6.NS.B.3	6.G.A.2		
10.9	Volume: Rectangular-based prisms with one fractional side length	6.G.A.2			
10.10	Volume: Rectangular-based prisms with two fractional side lengths	6.NS.B.3	6.G.A.2		
10.11	Volume: Rectangular-based prisms with three fractional side lengths	6.NS.B.3	6.G.A.2		
10.12	Volume: Solving word problems	6.NS.B.3	6.G.A.2		
11.1	Ratio: Introducing ratios with three parts	6.RP.A.3	6.RP.A.3a		
11.2	Ratio: Using ratios with three parts	6.RP.A.3			
11.3	Ratio: Comparing ratios with three parts	6.RP.A.3	6.RP.A.3a		
11.4	Ratio: Solving word problems with three-part ratios	6.RP.A.3			
11.5	Ratio: Resizing 2D shapes to a given percent	6.RP.A.3	6.RP.A.3c		
11.6	Ratio: Examining similar rectangles	6.RP.A.3	6.RP.A.3a		
11.7	Ratio: Examining similar triangles	6.RP.A.3	6.RP.A.3a		
11.8	Ratio: Examining percentage changes of area	6.RP.A.3	6.RP.A.3c		
11.9	Ratio: Working with percentage changes of area	6.RP.A.3	6.RP.A.3c		
11.10	3D objects: Analyzing pyramid nets	6.G.A.4			
11.11	3D objects: Analyzing prism nets	6.G.A.4			
11.12	3D objects: Creating prism nets	6.G.A.4			
12.1	Ratio: Introducing percentages greater than 100%	6.RP.A.3	6.RP.A.3c		
12.2	Ratio: Consolidating percentages greater than 100%	6.RP.A.3	6.RP.A.3c		
12.3	Ratio: Using complementary percentages	6.RP.A.3	6.RP.A.3c		
12.4	Ratio: Using percentages greater than 100%	6.RP.A.3	6.RP.A.3c		
12.5	Algebra: Simplifying expressions involving percentages	6.RP.A.3	6.RP.A.3c		
12.6	Algebra: Solving word problems involving percentages	6.RP.A.3	6.RP.A.3c		
12.7	Algebra: Solving equations with percentages and variables	6.RP.A.3	6.RP.A.3c	6.EE.B.7	
12.8	Algebra: Solving word problems with percentages and variables	6.RP.A.3	6.RP.A.3c		
12.9	Algebra: Generating and graphing variables	6.RP.A.2	6.RP.A.3	6.RP.A.3b	6.EE.C.9
12.10	Algebra: Generating and graphing variables (non-equivalent ratios)	6.EE.C.9			
12.11	Algebra: Generating and graphing variables (approximate ratios)	6.RP.A.2	6.RP.A.3	6.RP.A.3b	6.EE.C.9
12.12	Algebra: Generating and graphing variables (non-linear)	6.RP.A.2	6.RP.A.3	6.RP.A.3b	6.EE.C.9