Domain: Ratios and Proportional Relationships

Cluster: Understand ratio concepts and use ratio reasoning to solve problems.

6.RP.1

Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 5	Module 1	70 - Paint Ratios	6.RP.3.a, 6.RP.1		SMP2	Relationships between variab…
Stretch 5	Module 1	71 - Maintaining Relationships	6.RP.3.a, 6.RP.1		SMP6	Patterns inside numbers Relationships between variab…
Stretch 5	Module 1	72 - Representing Ratios	6.RP.3.a, 6.RP.1		SMP7	Patterns inside numbers Relationships between variab… Generalizing with multiple rep…
Stretch 5	Module 1	73 - Tape Diagrams	6.RP.3.a, 6.RP.1		SMP4	Generalizing with multiple rep… Relationships between variab…
Stretch 5	Module 2	74 - Ratios in Printing	6.RP.3.a, 6.RP.1		SMP2	Patterns inside numbers Relationships between variab…
Stretch 5	Module 4	82 - Estimating Percentages	6.RP.3.c, 6.RP.3.a, 6.RP.1	6.SP.4	SMP2	Fraction relationships Model the world Generalizing with multiple rep…
Stretch 5	Module 5	83 - The Rubber Band	6.RP.1, 6.RP.3.a		SMP1	Fraction relationships Relationships between variab…
Stretch 5	Module 6	86 - Connections with Measurement II	6.EE.9, 6.RP.3, 6.RP.1	6.EE.2, 6.EE.6	SMP7	Relationships between variab… Model the world Generalizing with multiple rep…

6.RP.2

Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 0, and use rate language in the context of a ratio relationship.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 5	Module 2	75 - From Situations to Tables	6.RP.2, 6.RP.3.b		SMP2	Patterns inside numbers Relationships between variab…
Stretch 5	Module 2	76 - Ratios and Statistics	6.RP.3.a, 6.RP.3.d	6.RP.2	SMP1	Relationships between variab… Generalizing with multiple rep… Patterns inside numbers
Stretch 5	Module 5	84 - Relating Fractions, Ratios, and Percents	6.RP.3.d	6.RP.2, 6.RP.3.a	SMP3	Model the world Generalizing with multiple rep…
Stretch 5	Module 5	E15 - Cards and Percentages	6.RP.3.d, 6.EE.9	6.RP.2, 6.EE.2, 6.EE.6	SMP4	Relationships between variab… Model the world Generalizing with multiple rep…

6.RP.3

Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 3	Module 3	46 - Fractions, Decimals, and Percentages	6.NS.6.c	6.RP.3.c	SMP2	Fraction relationships Distance and direction
Stretch 5	Module 1	70 - Paint Ratios	6.RP.3.a, 6.RP.1		SMP2	Relationships between variab…
Stretch 5	Module 1	71 - Maintaining Relationships	6.RP.3.a, 6.RP.1		SMP6	Patterns inside numbers Relationships between variab…
Stretch 5	Module 1	72 - Representing Ratios	6.RP.3.a, 6.RP.1		SMP7	Patterns inside numbers Relationships between variab… Generalizing with multiple rep…
Stretch 5	Module 1	73 - Tape Diagrams	6.RP.3.a, 6.RP.1		SMP4	Generalizing with multiple rep… Relationships between variab…
Stretch 5	Module 2	74 - Ratios in Printing	6.RP.3.a, 6.RP.1		SMP2	Patterns inside numbers Relationships between variab…
Stretch 5	Module 2	75 - From Situations to Tables	6.RP.2, 6.RP.3.b		SMP2	Patterns inside numbers Relationships between variab…
Stretch 5	Module 2	E12 - Cottage Prices	6.RP.3.a	6.SP.4	SMP1	Variability in data Relationships between variab… Generalizing with multiple rep…
Stretch 5	Module 2	76 - Ratios and Statistics	6.RP.3.a, 6.RP.3.d	6.RP.2	SMP1	Relationships between variab… Generalizing with multiple rep… Patterns inside numbers
Stretch 5	Module 3	E13 - Additive Persistence	6.RP.3.c		SMP2	Fraction relationships Model the world
Stretch 5	Module 3	E14 - Security Camera Coverage	6.RP.3.c		SMP4	Fraction relationships Model the world

Stretch 5	Module 4	79 - Calculating Percentages of a Quantity	6.RP.3.c	6.NS.3	SMP7	Fraction relationships Model the world
Stretch 5	Module 4	80 - Tailor-Made Percentages	6.RP.3.c	6.NS.3	SMP5	Fraction relationships Model the world
Stretch 5	Module 4	81 - Deducing with Percentages	6.RP.3.c, 6.RP.3.a		SMP4	Fraction relationships Model the world
Stretch 5	Module 4	82 - Estimating Percentages	6.RP.3.c, 6.RP.3.a, 6.RP.1	6.SP.4	SMP2	Fraction relationships Model the world Generalizing with multiple rep…
Stretch 5	Module 5	83 - The Rubber Band	6.RP.1, 6.RP.3.a		SMP1	Fraction relationships Relationships between variab…
Stretch 5	Module 5	84 - Relating Fractions, Ratios, and Percents	6.RP.3.d	6.RP.2, 6.RP.3.a	SMP3	Model the world Generalizing with multiple rep…
Stretch 5	Module 5	E15 - Cards and Percentages	6.RP.3.d, 6.EE.9	6.RP.2, 6.EE.2, 6.EE.6	SMP4	Relationships between variab… Model the world Generalizing with multiple rep…
Stretch 5	Module 5	85 - Connections with Measurement I	6.RP.3.d, 6.EE.9	6.EE.2, 6.EE.6	SMP7	Relationships between variab… Model the world Generalizing with multiple rep…
Stretch 5	Module 6	86 - Connections with Measurement II	6.EE.9, 6.RP.3, 6.RP.1	6.EE.2, 6.EE.6	SMP7	Relationships between variab… Model the world Generalizing with multiple rep…

Domain: The Number System

Cluster: Apply and extend previous understandings of multiplication and division to divide fractions by fractions.

6.NS.1

Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 3	Module 2	38 - Dividing Fractions by Whole Numbers	6.NS.1		SMP8	Fraction relationships
Stretch 3	Module 2	39 - Dividing Whole Numbers by Fractions	6.NS.1		SMP3	Fraction relationships
Stretch 3	Module 2	40 - Dividing by Multiplying	6.NS.1		SMP7	Fraction relationships
Stretch 3	Module 2	41 - Dividing Fractions I	6.NS.1		SMP8	Fraction relationships
Stretch 3	Module 2	42 - Dividing Fractions II	6.NS.1		SMP8	Fraction relationships
Stretch 3	Module 2	43 - Productive Practice: Dividing Fractions	6.NS.1		SMP7	Fraction relationships
Stretch 3	Module 2	44 - Operations with Mixed Numbers		6.NS.1, 5.NF.1, 5.NF.4, 5.NF.6	SMP4	Fraction relationships

Cluster: Compute fluently with multi-digit numbers and find common factors and multiples.

6.NS.2

Fluently divide multi-digit numbers using the standard algorithm.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 1	Module 1	2 - Adding and Subtracting		4.NBT.4, 6.NS.2, 6.NS.3	SMP6	Number Flexibility for All Four…
Stretch 1	Module 1	3 - Multiplying		5.NBT.5, 6.NS.2, 6.NS.3	SMP1	Number Flexibility for All Four…
Stretch 1	Module 2	4 - Dividing	6.NS.2		SMP7	Model the World
Stretch 1	Module 2	5 - Division Word Problems	6.NS.2		SMP2	Model the World
Stretch 1	Module 2	6 - Continue Dividing	6.NS.2		SMP2	Model the World
Stretch 2	Module 3	27 - Other Uses of Letters	6.EE.1, 6.EE.2	6.NS.2, 6.NS.4	SMP2, SMP8	Model the world
Stretch 3	Module 3	49 - Dividing Decimals	6.NS.3, 6.NS.2		SMP6, SMP3	Model the world

6.NS.3

Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 1	Module 1	2 - Adding and Subtracting		4.NBT.4, 6.NS.2, 6.NS.3	SMP6	Number Flexibility for All Four…
Stretch 1	Module 1	3 - Multiplying		5.NBT.5, 6.NS.2, 6.NS.3	SMP1	Number Flexibility for All Four…
Stretch 3	Module 3	47 - Adding and Subtracting Decimals	6.NS.3		SMP3	Model the world
Stretch 3	Module 3	48 - Multiplying Decimals	6.NS.3		SMP3	Model the world
Stretch 3	Module 3	49 - Dividing Decimals	6.NS.3, 6.NS.2		SMP6, SMP3	Model the world
Stretch 5	Module 4	79 - Calculating Percentages of a Quantity	6.RP.3.c	6.NS.3	SMP7	Fraction relationships Model the world
Stretch 5	Module 4	80 - Tailor-Made Percentages	6.RP.3.c	6.NS.3	SMP5	Fraction relationships Model the world

6.NS.4

Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 1	Module 5	14 - Multiples, Factors, and Prime Numbers		4.OA.4, 5.OA.2.1, 6.NS.4	SMP7, SMP6	Patterns inside numbers
Stretch 1	Module 5	E4 - Divisibility Chains		4.OA.4, 6.NS.4	SMP1	Patterns inside numbers
Stretch 1	Module 5	15 - Prime Factorization	6.NS.4		SMP2	Patterns inside numbers
Stretch 1	Module 5	16 - Multiples and Factors Using Prime Factors		5.OA.2.1, 6.NS.4	SMP1	Patterns inside numbers
Stretch 1	Module 6	17 - Lists of Common Multiples and Factors		5.OA.2.1, 6.NS.4	SMP8	Patterns inside numbers
Stretch 1	Module 6	18 - GCF and LCM with Venn Diagrams	6.NS.4		SMP4	Patterns inside numbers
Stretch 1	Module 6	19 - GCF and LCM Practice	6.NS.4		SMP2, SMP8	Patterns inside numbers
Stretch 1	Module 6	E5 - Hidden Patterns in the Hundreds Chart	6.NS.4		SMP7	Patterns inside numbers
Stretch 2	Module 3	27 - Other Uses of Letters	6.EE.1, 6.EE.2	6.NS.2, 6.NS.4	SMP2, SMP8	Model the world

Cluster: Apply and extend previous understandings of numbers to the system of rational numbers.

6.NS.5

Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 3	Module 4	51 - Negative Numbers on the Number Line	6.NS.5, 6.NS.6.b, 6.NS.6.c, 6.NS.8		SMP4	Model the world Distance and direction Graphing shapes
Stretch 3	Module 4	52 - Ordering and Jumping on the Number Line	6.NS.5, 6.NS.6.c		SMP4, SMP2	Patterns inside numbers Distance and direction
Stretch 3	Module 4	53 - Negative Rational Numbers	6.NS.6.a, 6.NS.6.c, 6.NS.7.c	6.NS.5	SMP7	Patterns inside numbers Distance and direction

6.NS.6

Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 2	Module 4	32 - Beyond Algebraic Expressions	6.EE.9, 6.NS.8, 6.NS.6.c		SMP4	Relationships between variab… Generalizing with multiple rep…
Stretch 3	Module 3	45 - Fractions and Decimals		6.NS.6c, 4.NF.C.6, 4.NF.C.7, 5.NF.A.3	SMP7	Distance and direction Fraction relationships

Stretch 3	Module 3	46 - Fractions, Decimals, and Percentages	6.NS.6.c	6.RP.3.c	SMP2	Fraction relationships Distance and direction
Stretch 3	Module 4	51 - Negative Numbers on the Number Line	6.NS.5, 6.NS.6.b, 6.NS.6.c, 6.NS.8		SMP4	Model the world Distance and direction Graphing shapes
Stretch 3	Module 4	52 - Ordering and Jumping on the Number Line	6.NS.5, 6.NS.6.c		SMP4, SMP2	Patterns inside numbers Distance and direction
Stretch 3	Module 4	53 - Negative Rational Numbers	6.NS.6.a, 6.NS.6.c, 6.NS.7.c	6.NS.5	SMP7	Patterns inside numbers Distance and direction
Stretch 3	Module 4	54 - Points on the Coordinate Plane	6.NS.6.a, 6.NS.7.a, 6.NS.7.d	6.NS.6.c, 6.EE.2.a, 6.NS.7.b	SMP3, SMP7	Distance and direction
Stretch 3	Module 4	55 - Practice on the Coordinate Plane	6.NS.6.a, 6.NS.6.c, 6.NS.7.a, 6.NS.7.c		SMP7	Distance and direction Fraction relationships
Stretch 3	Module 4	E9 - The Last Card Standing	6.NS.6.b, 6.NS.6.c, 6.NS.8	6.NS.7.c, 6.NS.7.d, 6.SP.4	SMP4, SMP2	Model the world Distance and direction Graphing shapes
Stretch 6	Module 2	95 - Polygons on the Coordinate Plane (II)	6.G.3	6.G.1, 6.NS.6.c, 6.NS.8	SMP6	Distance and direction Graphing shapes
Stretch 6	Module 2	96 - Coordinate Situations	6.G.3	6.G.1, 6.NS.6.c, 6.NS.8	SMP5	Graphing shapes Distance and direction

6.NS.7

Understand ordering and absolute value of rational numbers.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 3	Module 4	53 - Negative Rational Numbers	6.NS.6.a, 6.NS.6.c, 6.NS.7.c	6.NS.5	SMP7	Patterns inside numbers Distance and direction
Stretch 3	Module 4	54 - Points on the Coordinate Plane	6.NS.6.a, 6.NS.7.a, 6.NS.7.d	6.NS.6.c, 6.EE.2.a, 6.NS.7.b	SMP3, SMP7	Distance and direction
Stretch 3	Module 4	55 - Practice on the Coordinate Plane	6.NS.6.a, 6.NS.6.c, 6.NS.7.a, 6.NS.7.c		SMP7	Distance and direction Fraction relationships
Stretch 3	Module 4	E9 - The Last Card Standing	6.NS.6.b, 6.NS.6.c, 6.NS.8	6.NS.7.c, 6.NS.7.d, 6.SP.4	SMP4, SMP2	Model the world Distance and direction Graphing shapes

6.NS.8

Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 2	Module 4	32 - Beyond Algebraic Expressions	6.EE.9, 6.NS.8, 6.NS.6.c		SMP4	Relationships between variab… Generalizing with multiple rep…
Stretch 3	Module 4	51 - Negative Numbers on the Number Line	6.NS.5, 6.NS.6.b, 6.NS.6.c, 6.NS.8		SMP4	Model the world Distance and direction Graphing shapes
Stretch 3	Module 4	E9 - The Last Card Standing	6.NS.6.b, 6.NS.6.c, 6.NS.8	6.NS.7.c, 6.NS.7.d, 6.SP.4	SMP4, SMP2	Model the world Distance and direction Graphing shapes
Stretch 6	Module 2	94 - Polygons on the Coordinate Plane (I)	6.G.3	6.G.1, 6.NS.8	SMP1	Distance and direction Graphing shapes
Stretch 6	Module 2	95 - Polygons on the Coordinate Plane (II)	6.G.3	6.G.1, 6.NS.6.c, 6.NS.8	SMP6	Distance and direction Graphing shapes
Stretch 6	Module 2	96 - Coordinate Situations	6.G.3	6.G.1, 6.NS.6.c, 6.NS.8	SMP5	Graphing shapes Distance and direction

Domain: Expressions and Equations

Cluster: Apply and extend previous understandings of arithmetic to algebraic expressions.

6.EE.1

Write and evaluate numerical expressions involving whole-number exponents.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 1	Module 1	1 - Maya Numerals		4.NBT.1, 6.EE.1	SMP7, SMP1	Patterns inside numbers
Stretch 1	Module 3	8 - Reviewing Powers	6.EE.1		SMP8	Patterns inside numbers
Stretch 1	Module 3	9 - Powers and Their Properties Using Vines	6.EE.1	6.EE.2.a	SMP8	Patterns inside numbers

Stretch 1	Module 3	10 - Patterns in Powers	6.EE.1		SMP7	Patterns inside numbers
Stretch 1	Module 3	E2 - Decomposing with Square Numbers	6.EE.1		SMP1	Patterns inside numbers
Stretch 1	Module 4	11 - Introducing Square Roots	6.EE.1	6.EE.2.a, 6.EE.5, 6.EE.6	SMP4	Patterns Inside Numbers
Stretch 1	Module 4	12 - Powers and Square Roots	6.EE.1		SMP5	Patterns inside numbers
Stretch 1	Module 4	13 - Order of Operations With Powers	6.EE.1		SMP7	Patterns inside numbers
Stretch 1	Module 4	E3 - Exploring Happy Numbers	6.EE.1		SMP7	Patterns inside numbers
Stretch 2	Module 3	27 - Other Uses of Letters	6.EE.1, 6.EE.2	6.NS.2, 6.NS.4	SMP2, SMP8	Model the world
Stretch 3	Module 1	37 - Multiplying Fractions		6.EE.1, 6.EE.2.b, 6.EE.5	SMP7	Fraction relationships

6.EE.2

Write, read, and evaluate expressions in which letters stand for numbers.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 1	Module 2	7 - Expressions With Multiple Operations	6.EE.3, 6.EE.2.c		SMP4	Model the World
Stretch 1	Module 3	9 - Powers and Their Properties Using Vines	6.EE.1	6.EE.2.a	SMP8	Patterns inside numbers
Stretch 1	Module 4	11 - Introducing Square Roots	6.EE.1	6.EE.2.a, 6.EE.5, 6.EE.6	SMP4	Patterns Inside Numbers
Stretch 2	Module 1	20 - Introduction to Algebraic Language	6.EE.2	6.EE.5, 6.EE.6	SMP4	Generalizing with multiple rep…
Stretch 2	Module 1	21 - Algebraic Language in Context	6.EE.2.c, 6.EE.6	6.EE.7, 6.EE.5	SMP1	Generalizing with multiple rep…
Stretch 2	Module 1	23 - Equations Without Real-World Context	6.EE.7, 6.EE.5	6.EE.2	SMP1, SMP6	Generalizing with multiple rep… Relationships between variab…
Stretch 2	Module 2	E6 - Cryptarithmetic	6.EE.5, 6.EE.2.c		SMP1	Relationships between variab… Generalizing with multiple rep…
Stretch 2	Module 3	27 - Other Uses of Letters	6.EE.1, 6.EE.2	6.NS.2, 6.NS.4	SMP2, SMP8	Model the world
Stretch 2	Module 3	28 - Operations with Algebraic Expressions	6.EE.3, 6.EE.6	6.EE.2, 6.EE.4	SMP6	Generalizing with multiple rep…
Stretch 2	Module 3	29 - Numerical Value	6.EE.2.c		SMP2	Relationships between variab… Generalizing with multiple rep…
Stretch 2	Module 3	30 - Growth Patterns	6.EE.2.a, 6.EE.6	6.EE.4	SMP8	Generalizing with multiple rep…
Stretch 2	Module 4	31 - More Growth Patterns	6.EE.2.c, 6.EE.6	6.EE.2.a	SMP8	Generalizing with multiple rep…
Stretch 2	Module 4	E7 - Polyhedra and Algebra	6.EE.2.a	6.EE.2.c	SMP7	Generalizing with multiple rep… Model the world
Stretch 3	Module 1	37 - Multiplying Fractions		6.EE.1, 6.EE.2.b, 6.EE.5	SMP7	Fraction relationships
Stretch 3	Module 4	54 - Points on the Coordinate Plane	6.NS.6.a, 6.NS.7.a, 6.NS.7.d	6.NS.6.c, 6.EE.2.a, 6.NS.7.b	SMP3, SMP7	Distance and direction
Stretch 5	Module 5	E15 - Cards and Percentages	6.RP.3.d, 6.EE.9	6.RP.2, 6.EE.2, 6.EE.6	SMP4	Relationships between variab… Model the world Generalizing with multiple rep…
Stretch 5	Module 5	85 - Connections with Measurement I	6.RP.3.d, 6.EE.9	6.EE.2, 6.EE.6	SMP7	Relationships between variab… Model the world Generalizing with multiple rep…
Stretch 5	Module 6	86 - Connections with Measurement II	6.EE.9, 6.RP.3, 6.RP.1	6.EE.2, 6.EE.6	SMP7	Relationships between variab… Model the world Generalizing with multiple rep…
Stretch 6	Module 1	91 - Pick-and-Shovel Area Work	6.G.1	6.EE.2.c	SMP1	Graphing shapes
Stretch 6	Module 1	92 - Finding Areas by Triangulation	6.G.1	6.EE.2.a	SMP7	Graphing shapes

6.EE.3

Apply the properties of operations to generate equivalent expressions.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 1	Module 2	7 - Expressions With Multiple Operations	6.EE.3, 6.EE.2.c		SMP4	Model the World
Stretch 2	Module 3	28 - Operations with Algebraic Expressions	6.EE.3, 6.EE.6	6.EE.2, 6.EE.4	SMP6	Generalizing with multiple rep…

6.EE.4

Identify when two expressions are equivalent (i.e., when the two expressions name the same number regardless of which value is substituted into them).

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 2	Module 2	26 - Simultaneous Equations	6.EE.7	6.EE.4, 6.EE.5	SMP6	Generalizing with multiple rep… Relationships between variab…
Stretch 2	Module 3	28 - Operations with Algebraic Expressions	6.EE.3, 6.EE.6	6.EE.2, 6.EE.4	SMP6	Generalizing with multiple rep…
Stretch 2	Module 3	30 - Growth Patterns	6.EE.2.a, 6.EE.6	6.EE.4	SMP8	Generalizing with multiple rep…

Cluster: Reason about and solve one-variable equations and inequalities.

6.EE.5

Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 1	Module 4	11 - Introducing Square Roots	6.EE.1	6.EE.2.a, 6.EE.5, 6.EE.6	SMP4	Patterns Inside Numbers
Stretch 2	Module 1	20 - Introduction to Algebraic Language	6.EE.2	6.EE.5, 6.EE.6	SMP4	Generalizing with multiple rep…
Stretch 2	Module 1	21 - Algebraic Language in Context	6.EE.2.c, 6.EE.6	6.EE.7, 6.EE.5	SMP1	Generalizing with multiple rep…
Stretch 2	Module 1	22 - Equations and Word Problems	6.EE.7, 6.EE.6	6.EE.5	SMP2	Generalizing with multiple rep…
Stretch 2	Module 1	23 - Equations Without Real-World Context	6.EE.7, 6.EE.5	6.EE.2	SMP1, SMP6	Generalizing with multiple rep… Relationships between variab…
Stretch 2	Module 2	24 - More Equations	6.EE.5, 6.EE.7		SMP4	Generalizing with multiple rep… Relationships between variab…
Stretch 2	Module 2	25 - First Look at Inequalities	6.EE.8, 6.EE.7, 6.EE.5		SMP1	Generalizing with multiple rep… Relationships between variab…
Stretch 2	Module 2	26 - Simultaneous Equations	6.EE.7	6.EE.4, 6.EE.5	SMP6	Generalizing with multiple rep… Relationships between variab…
Stretch 2	Module 2	E6 - Cryptarithmetic	6.EE.5, 6.EE.2.c		SMP1	Relationships between variab… Generalizing with multiple rep…
Stretch 3	Module 1	37 - Multiplying Fractions		6.EE.1, 6.EE.2.b, 6.EE.5	SMP7	Fraction relationships

6.EE.6

Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 1	Module 4	11 - Introducing Square Roots	6.EE.1	6.EE.2.a, 6.EE.5, 6.EE.6	SMP4	Patterns Inside Numbers
Stretch 2	Module 1	20 - Introduction to Algebraic Language	6.EE.2	6.EE.5, 6.EE.6	SMP4	Generalizing with multiple rep…
Stretch 2	Module 1	21 - Algebraic Language in Context	6.EE.2.c, 6.EE.6	6.EE.7, 6.EE.5	SMP1	Generalizing with multiple rep…
Stretch 2	Module 1	22 - Equations and Word Problems	6.EE.7, 6.EE.6	6.EE.5	SMP2	Generalizing with multiple rep…
Stretch 2	Module 3	28 - Operations with Algebraic Expressions	6.EE.3, 6.EE.6	6.EE.2, 6.EE.4	SMP6	Generalizing with multiple rep…
Stretch 2	Module 3	30 - Growth Patterns	6.EE.2.a, 6.EE.6	6.EE.4	SMP8	Generalizing with multiple rep…
Stretch 2	Module 4	31 - More Growth Patterns	6.EE.2.c, 6.EE.6	6.EE.2.a	SMP8	Generalizing with multiple rep…
Stretch 2	Module 4	33 - Productive Practice with Algebraic Language	6.EE.6, 6.EE.7, 6.EE.9		SMP4	Generalizing with multiple rep… Relationships between variab…
Stretch 5	Module 5	E15 - Cards and Percentages	6.RP.3.d, 6.EE.9	6.RP.2, 6.EE.2, 6.EE.6	SMP4	Relationships between variab… Model the world
Stretch 5	Module 5	85 - Connections with Measurement I	6.RP.3.d, 6.EE.9	6.EE.2, 6.EE.6	SMP7	Relationships between variab… Model the world
Stretch 5	Module 6	86 - Connections with Measurement II	6.EE.9, 6.RP.3, 6.RP.1	6.EE.2, 6.EE.6	SMP7	Relationships between variab… Model the world

6.EE.7

Solve real-world and mathematical problems by writing and solving equations of the form x + p = q and px = q for cases in which p, q and x are all nonnegative rational numbers.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 2	Module 1	21 - Algebraic Language in Context	6.EE.2.c, 6.EE.6	6.EE.7, 6.EE.5	SMP1	Generalizing with multiple rep…
Stretch 2	Module 1	22 - Equations and Word Problems	6.EE.7, 6.EE.6	6.EE.5	SMP2	Generalizing with multiple rep…
Stretch 2	Module 1	23 - Equations Without Real-World Context	6.EE.7, 6.EE.5	6.EE.2	SMP1, SMP6	Generalizing with multiple rep… Relationships between variab…
Stretch 2	Module 2	24 - More Equations	6.EE.5, 6.EE.7		SMP4	Generalizing with multiple rep… Relationships between variab…
Stretch 2	Module 2	25 - First Look at Inequalities	6.EE.8, 6.EE.7, 6.EE.5		SMP1	Generalizing with multiple rep… Relationships between variab…
Stretch 2	Module 2	26 - Simultaneous Equations	6.EE.7	6.EE.4, 6.EE.5	SMP6	Generalizing with multiple rep… Relationships between variab…
Stretch 2	Module 4	33 - Productive Practice with Algebraic Language	6.EE.6, 6.EE.7, 6.EE.9		SMP4	Generalizing with multiple rep… Relationships between variab…

6.EE.8

Write an inequality of the form x > c or x < c to represent a constraint or condition in a real-world or mathematical problem. Recognize that inequalities of the form x > c or x < c have infinitely many solutions; represent solutions of such inequalities on number line diagrams.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 2	Module 2	25 - First Look at Inequalities	6.EE.8, 6.EE.7, 6.EE.5		SMP1	Generalizing with multiple rep… Relationships between variab…

Cluster: Represent and analyze quantitative relationships between dependent and independent variables.

6.EE.9

Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 2	Module 4	32 - Beyond Algebraic Expressions	6.EE.9, 6.NS.8, 6.NS.6.c		SMP4	Relationships between variab… Generalizing with multiple rep…
Stretch 2	Module 4	33 - Productive Practice with Algebraic Language	6.EE.6, 6.EE.7, 6.EE.9		SMP4	Generalizing with multiple rep… Relationships between variab…
Stretch 5	Module 5	E15 - Cards and Percentages	6.RP.3.d, 6.EE.9	6.RP.2, 6.EE.2, 6.EE.6	SMP4	Relationships between variab… Model the world
Stretch 5	Module 5	85 - Connections with Measurement I	6.RP.3.d, 6.EE.9	6.EE.2, 6.EE.6	SMP7	Relationships between variab… Model the world
Stretch 5	Module 6	86 - Connections with Measurement II	6.EE.9, 6.RP.3, 6.RP.1	6.EE.2, 6.EE.6	SMP7	Relationships between variab… Model the world

Domain: Geometry

Cluster: Solve real-world and mathematical problems involving area, surface area, and volume.

6.G.1

Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 6	Module 1	89 - Area and Perimeter	6.G.1		SMP6	Graphing shapes
Stretch 6	Module 1	90 - Composition and Decomposition of Polygons	6.G.1		SMP1	Graphing shapes
Stretch 6	Module 1	91 - Pick-and-Shovel Area Work	6.G.1	6.EE.2.c	SMP1	Graphing shapes
Stretch 6	Module 1	92 - Finding Areas by Triangulation	6.G.1	6.EE.2.a	SMP7	Graphing shapes
Stretch 6	Module 2	93 - Productive Practice with Area Calculations	6.G.1		SMP1	Graphing shapes
Stretch 6	Module 2	94 - Polygons on the Coordinate Plane (I)	6.G.3	6.G.1, 6.NS.8	SMP1	Distance and direction Graphing shapes
Stretch 6	Module 2	95 - Polygons on the Coordinate Plane (II)	6.G.3	6.G.1, 6.NS.6.c, 6.NS.8	SMP6	Distance and direction Graphing shapes
Stretch 6	Module 2	96 - Coordinate Situations	6.G.3	6.G.1, 6.NS.6.c, 6.NS.8	SMP5	Graphing shapes Distance and direction
Stretch 6	Module 4	99 - Cube Nets	6.G.4	6.G.1	SMP7	Nets and Surface Area Graphing shapes
Stretch 6	Module 4	100 - Nets of 3D shapes	6.G.4	6.G.1	SMP6	Nets and Surface Area Graphing shapes

6.G.2

Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas V = l w h and V = b h to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 6	Module 3	E17 - Geometry Contest	6.G.2		SMP6	Nets and Surface Area
Stretch 6	Module 3	97 - Volume and Surface Area of Prisms	6.G.2, 6.G.4		SMP8	Nets and Surface Area

6.G.3

Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 6	Module 2	94 - Polygons on the Coordinate Plane (I)	6.G.3	6.G.1, 6.NS.8	SMP1	Distance and direction Graphing shapes
Stretch 6	Module 2	95 - Polygons on the Coordinate Plane (II)	6.G.3	6.G.1, 6.NS.6.c, 6.NS.8	SMP6	Distance and direction Graphing shapes
Stretch 6	Module 2	96 - Coordinate Situations	6.G.3	6.G.1, 6.NS.6.c, 6.NS.8	SMP5	Graphing shapes Distance and direction

6.G.4

Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 6	Module 3	97 - Volume and Surface Area of Prisms	6.G.2, 6.G.4		SMP8	Nets and Surface Area
Stretch 6	Module 3	E18 - Area of Quadrilaterals on the Coordinate Plane	6.G.4		SMP1	Nets and Surface Area
Stretch 6	Module 4	99 - Cube Nets	6.G.4	6.G.1	SMP7	Nets and Surface Area Graphing shapes
Stretch 6	Module 4	100 - Nets of 3D shapes	6.G.4	6.G.1	SMP6	Nets and Surface Area Graphing shapes

Domain: Statistics and Probability

Cluster: Develop understanding of statistical variability.

6.SP.1

Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 4	Module 1	56 - Introduction to Statistics	6.SP.1		SMP1	Variability in data
Stretch 4	Module 1	57 - Formulating Statistical Questions	6.SP.1	6.SP.5.a, 6.SP.5.b	SMP6	Variability in data
Stretch 4	Module 1	58 - Collecting Experimental Data	6.SP.1		SMP5, SMP3	Variability in data
Stretch 4	Module 1	59 - Collecting Data from a Survey	6.SP.1		SMP1	Variability in data
Stretch 4	Module 4	68 - Surveying Student Arm Span I	6.SP.1	6.SP.5.b, 6.SP.5.a	SMP5	Variability in data The shape of distributions

6.SP.2

Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 4	Module 2	61 - Introducing Histograms	6.SP.4, 6.SP.2		SMP7, SMP2	The shape of distributions
Stretch 4	Module 2	62 - Deepening Our Understanding of Data Representatio	6.SP.4	6.SP.5.a, 6.SP.2	SMP3, SMP1	Variability in data The shape of distributions
Stretch 4	Module 3	64 - Understanding Measures of Spread and Position	6.SP.2, 6.SP.5.c, 6.SP.4	6.SP.3	SMP7	Variability in data

6.SP.3

Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 4	Module 3	63 - Discovering Measures of Center	6.SP.5.c, 6.SP.5.a, 6.SP.3	6.SP.4	SMP8, SMP4	Variability in data
Stretch 4	Module 3	64 - Understanding Measures of Spread and Position	6.SP.2, 6.SP.5.c, 6.SP.4	6.SP.3	SMP7	Variability in data
Stretch 4	Module 3	66 - Connecting Measures and Representations	6.SP.5.d, 6.SP.4	6.SP.3, 6.SP.5.c	SMP2	The shape of distributions
Stretch 4	Module 4	69 - Surveying Student Arm Span II	6.SP.5.c, 6.SP.5.d, 6.SP.3, 6.SP.4		SMP4, SMP2	Variability in data The shape of distributions Relationships between variab

Cluster: Summarize and describe distributions.

6.SP.4

Display numerical data in plots on a number line, including dot plots, histograms, and box plots.

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 3	Module 4	E9 - The Last Card Standing	6.NS.6.b, 6.NS.6.c, 6.NS.8	6.NS.7.c, 6.NS.7.d, 6.SP.4	SMP4, SMP2	Model the world Distance and direction Graphing shapes
Stretch 4	Module 2	60 - Representing Data	6.SP.4		SMP5, SMP5	Variability in data
Stretch 4	Module 2	61 - Introducing Histograms	6.SP.4, 6.SP.2		SMP7, SMP2	The shape of distributions
Stretch 4	Module 2	62 - Deepening Our Understanding of Data Representatio	6.SP.4	6.SP.5.a, 6.SP.2	SMP3, SMP1	Variability in data The shape of distributions
Stretch 4	Module 3	63 - Discovering Measures of Center	6.SP.5.c, 6.SP.5.a, 6.SP.3	6.SP.4	SMP8, SMP4	Variability in data
Stretch 4	Module 3	64 - Understanding Measures of Spread and Position	6.SP.2, 6.SP.5.c, 6.SP.4	6.SP.3	SMP7	Variability in data
Stretch 4	Module 3	65 - Productive Practice: Statistical Measures	6.SP.5.c	6.SP.4	SMP1	Variability in data The shape of distributions
Stretch 4	Module 3	66 - Connecting Measures and Representations	6.SP.5.d, 6.SP.4	6.SP.3, 6.SP.5.c	SMP2	The shape of distributions
Stretch 4	Module 4	67 - Analyzing Statistical Surveys	6.SP.4, 6.SP.5.d		SMP1, SMP3	Variability in data The shape of distributions Relationships between variab…
Stretch 4	Module 4	69 - Surveying Student Arm Span II	6.SP.5.c, 6.SP.5.d, 6.SP.3, 6.SP.4		SMP4, SMP2	Variability in data The shape of distributions Relationships between variab…
Stretch 5	Module 2	E12 - Cottage Prices	6.RP.3.a	6.SP.4	SMP1	Variability in data Relationships between variab… Generalizing with multiple rep…
Stretch 5	Module 4	82 - Estimating Percentages	6.RP.3.c, 6.RP.3.a, 6.RP.1	6.SP.4	SMP2	Fraction relationships Model the world Generalizing with multiple rep…

6.SP.5

Summarize numerical data sets in relation to their context, such as by:

Stretch	Module	Session Title	Main Standards	Secondary Standards	SMPs	Big Ideas
Stretch 4	Module 1	57 - Formulating Statistical Questions	6.SP.1	6.SP.5.a, 6.SP.5.b	SMP6	Variability in data
Stretch 4	Module 2	62 - Deepening Our Understanding of Data Representatio	6.SP.4	6.SP.5.a, 6.SP.2	SMP3, SMP1	Variability in data The shape of distributions
Stretch 4	Module 3	63 - Discovering Measures of Center	6.SP.5.c, 6.SP.5.a, 6.SP.3	6.SP.4	SMP8, SMP4	Variability in data
Stretch 4	Module 3	64 - Understanding Measures of Spread and Position	6.SP.2, 6.SP.5.c, 6.SP.4	6.SP.3	SMP7	Variability in data
Stretch 4	Module 3	65 - Productive Practice: Statistical Measures	6.SP.5.c	6.SP.4	SMP1	Variability in data The shape of distributions
Stretch 4	Module 3	66 - Connecting Measures and Representations	6.SP.5.d, 6.SP.4	6.SP.3, 6.SP.5.c	SMP2	The shape of distributions
Stretch 4	Module 3	E10 - The Set of Nine	6.SP.5.c		SMP1	Variability in data
Stretch 4	Module 4	67 - Analyzing Statistical Surveys	6.SP.4, 6.SP.5.d		SMP1, SMP3	Variability in data The shape of distributions Relationships between variab…
Stretch 4	Module 4	E11 - Sampling Squares	6.SP.5.c		SMP1	Variability in data
Stretch 4	Module 4	68 - Surveying Student Arm Span I	6.SP.1	6.SP.5.b, 6.SP.5.a	SMP5	Variability in data The shape of distributions
Stretch 4	Module 4	69 - Surveying Student Arm Span II	6.SP.5.c, 6.SP.5.d, 6.SP.3, 6.SP.4		SMP4, SMP2	Variability in data The shape of distributions Relationships between variab…