Catchup Math and the Common Core Standards

Spring 2011

The Catchup Math curriculum addresses nearly all the Common Core Mathematics Standards for Grades 6-8 and High School (including most of the "optional" high school mathematics standards, indicated in the Common Core Standards document with a (+) symbol).

For each standard in Column A, Column B shows Catchup Math topic names, which can be added to custom programs; Column C shows specific Catchup Math programs where the standard is covered.

Column A	Column B	Column C
6.RP.1	Rates and Ratios; Proportions	Essentials; Pre-Algebra Chapter 6; Algebra 1 Chapter 3; Geometry Chapter 6
6.RP.2	Unit Rates	Pre-Algebra Chapter 6; Pre- Algebra Chapter 11; Algebra 1 Chapter 3
6.RP.3	Rates and Ratios; Percent; Equivalent Fractions; Unit Analysis	Essentials; Pre-Algebra Chapter 6; Algebra 1 Chapter 3
6.NS.1	Dividing by a Fraction	Essentials
6.NS.2	Basic operations with whole numbers: not covered in Catchup Math	
6.NS.3	Adding and Subtracting Decimals; Multiplying and Dividing with Decimals	Essentials; Pre-Algebra Proficiency; Pre-Algebra Chapter 1
6.NS.4	Greatest Common Factors; Least Common Multiples	Essentials; Pre-Algebra Proficiency; Algebra 1 Proficiency; Pre-Algebra Chapter 3;
6.NS.5	Integers; Number Line	Essentials; Pre-Algebra Proficiency; Pre-Algebra Chapter 2
6.NS.6	Opposites; Rational Numbers; Number Line; Ordered Pairs; Cartesian Plane	Pre-Algebra Proficiency; Algebra 1 Proficiency; Pre- Algebra Chapter 2; Pre-

		Algebra Chapter 3
6.NS.7	Absolute Value; Inequalities	Essentials; Pre-Algebra Proficiency; Pre-Algebra Chapter 2
6.NS.8	Ordered Pair; Cartesian Plane	Essentials; Pre-Algebra Proficiency; Algebra 1 Chapter 2
6.EE.1	Exponents	Essentials; Pre-Algebra Proficiency; Algebra 1 Chapter 6
6.EE.2	Variables; Word Problems	Essentials; Pre-Algebra Proficiency; Pre-Algebra Chapter 1; Algebra 1 Chapter 1
6.EE.3	Properties of Multiplication; Properties of Addition	Essentials; Pre-Algebra Proficiency
6.EE.4	Solving Equations	Essentials; Pre-Algebra Chapter 5
6.EE.5	Solving Equations; Inequalities	Pre-Algebra Proficiency; Pre- Algebra Chapter 5
6.EE.6	Word Problems; Variables	Essentials; Pre-Algebra Proficiency; Pre-Algebra Chapter 1; Algebra 1 Chapter 1
6.EE.7	Solving Linear Equations	Pre-Algebra Proficiency; Pre- Algebra Chapter 10; Algebra 1 Chapter 1
6.EE.8	Inequalities; Graphing Inequalities in One Variable	Pre-Algebra Chapter 8; Algebra 1 Proficiency
6.EE.9	Input-Output Tables; Functions; Rate-Time- Distance Problems; Direct Variation	Pre-Algebra Proficiency; Pre- Algebra Chapter 5; Algebra 1 Proficiency; Algebra 1 Chapter 3; Algebra 1 Chapter 9
6.G.1	Area; Triangle; Square; Rectangle	Pre-Algebra Chapter 9

6.G.2	Volume of a Prism	Pre-Algebra Chapter 9; Geometry Chapter 11
6.G.3	Ordered Pairs; Cartesian Plane	Essentials; Pre-Algebra Proficiency; Algebra 1 Chapter 2
6.G.4	Nets; Surface Area	Pre-Algebra Proficiency; Pre- Algebra Chapter 9; Geometry Proficiency; Geometry Chapter 11
6.SP.1	To be added soon	
6.SP.2	To be added soon	
6.SP.3	To be added soon	
6.SP.4	Line Plots; Box-and-Whisker Plots; Histograms	Pre-Algebra Proficiency; Algebra 1 Proficiency; Algebra 1 Chapter 11
6.SP.5	Mean, Median, Mode; Box-and-Whisker Plots; Interquartile; Range of Data	Pre-Algebra Proficiency; Algebra 1 Proficiency; Algebra 1 Chapter 11
7.RP.1	Unit Rates; Converting between Systems; Rates and Ratios	Essentials; Pre-Algebra Chapter 6; Pre-Algebra Chapter 11
7.RP.2	Direct Variation; Proportions; Graphing Linear Equations; Unit Rates	Pre-Algebra Proficiency; Geometry Proficiency; Algebra 1 Chapter 3
7.RP.3	Simple Interest; Rates and Ratios; Percent; Percent Increase and Decrease	Pre-Algebra Proficiency; Pre- Algebra Chapter 6; Algebra 1 Proficiency
7.NS.1	Opposites; Absolute Value; Integers; Adding and Subtracting Negatives; Properties of Addition; Distributive Property	Essentials; Pre-Algebra Proficiency; Pre-Algebra Chapter 2
7.NS.2	Multiplying a Fraction by a Fraction; Dividing by a Fraction; Multiplying and Dividing Negatives; Properties of Multiplication; Distributive Property	Essentials; Pre-Algebra Proficiency; Pre-Algebra Chapter 4

7.NS.3	Order of Operations; Multiplying a Fraction by a Fraction; Dividing by a Fraction; Multiplying and Dividing Negatives; Adding and Subtracting Negatives; Adding and Subtracting Fractions	Essentials; Pre-Algebra Proficiency; Pre-Algebra Chapter 4
7.EE.1	Simplifying Expressions; Order of Operations; Distributive Property; Factoring	Essentials; Pre-Algebra Proficiency; Pre-Algebra Chapter 1
7.EE.2	To be added soon	
7.EE.3	Word Problems; Converting Fractions to Decimals; Converting Repeating Decimals to Fractions	Essentials
7.EE.4	Solving Two-Step Linear Equations; Solving Linear Inequalities	Algebra 1 Proficiency; Algebra 1 Chapter 1; Algebra 1 Chapter 4
7.G.1	Scale Factor; Proportions	Pre-Algebra Proficiency; Pre- Algebra Chapter 6; Algebra 1 Chapter 3; Geometry Proficiency; Geometry Chapter 6
7.G.2	Drawing/construction type (see below)	1
7.G.3	To be added soon	
7.G.4	Circle; Area; Circumference	Pre-Algebra Chapter 7; Geometry Proficiency
7.G.5	Supplementary Angles; Complementary Angles; Vertical Angles; Adjacent Angles	Pre-Algebra Proficiency; Pre- Algebra Chapter 7; Geometry Proficiency
7.G.6	Area; Volume; Surface Area; Surface Area of a Cone; Surface Area of a Cylinder; Surface Area of a Prism; Surface Area of a Pyramid; Volume of a Prism; Volume of a Pyramid; Triangle; Quadrilateral; Cylinder; Cone; Pyramid; Prism; Polygons	Pre-Algebra Proficiency; Pre- Algebra Chapter 9; Geometry Proficiency
7.SP.1	Random Sampling	
	•	•

7.SP.2	Random Sampling	
7.SP.3	To be added soon	
7.SP.4	To be added soon	
7.SP.5	Probability	Algebra 1 Chapter 13
7.SP.6	Probability	Algebra 1 Chapter 13
7.SP.7	Modeling type (see below)	
7.SP.8	Sample Space; Fundamental Counting Principle	Algebra 1 Chapter 13
8.NS.1	Irrational Numbers	Essentials; Pre-Algebra Chapter 8
8.NS.2	Irrational Numbers; Square Roots; Rounding Decimals	Essentials; Pre-Algebra Proficiency; Pre-Algebra Chapter 8
8.EE.1	Exponents; Negative Exponents	Algebra 1 Chapter 6
8.EE.2	Square Roots; nth Roots; Perfect Squares	Pre-Algebra Proficiency; Pre- Algebra Chapter 8; Algebra 1 Chapter 8
8.EE.3	Scientific Notation	Pre-Algebra Proficiency; Algebra 1 Proficiency; Algebra 1 Chapter 6
8.EE.4	Scientific Notation	Pre-Algebra Proficiency; Algebra 1 Proficiency; Algebra 1 Chapter 6
8.EE.5	Proportions; Direct Variation; Unit Rates	Algebra 1 Chapter 3; Geometry Proficiency
8.EE.6	Slope; Similar Triangles; Slope-Intercept Form	Pre-Algebra Chapter 10; Algebra 1 Proficiency; Algebra 1 Chapter 2; Algebra 2 Proficiency
8.EE.7	Solving Multistep Linear Equations; Combining Like Terms	Algebra 1 Proficiency; Algebra 1 Chapter 1

8.EE.8	Solving Systems of Linear Equations; Solving Systems of Linear Equations Using Elimination Method; Solving Systems of Linear Equations Using Graphing Method; Solving Systems of Linear Equations Using Substitution Method	Algebra 1 Proficiency; Algebra 1 Chapter 5; Algebra 2 Chapter 3
8.F.1	Functions; Input-Output Tables	Algebra 1 Proficiency; Algebra 1 Chapter 9
8.F.2	To be added soon	
8.F.3	Slope-Intercept Form	Algebra 1 Chapter 2
8.F.4	To be added soon	
8.F.5	To be added soon	
8.G.1	Transformations of Graphs	Pre-Algebra Chapter 7; Geometry Proficiency; Geometry Chapter 8
8.G.2	Transformations of Graphs; Congruent Segments; Congruent Angles	Pre-Algebra Chapter 7; Geometry Proficiency; Geometry Chapter 8
8.G.3	Transformations of Graphs; Dilation	Pre-Algebra Chapter 7; Geometry Proficiency; Geometry Chapter 8
8.G.4	Transformations of Graphs; Dilation; Similar Figures	Pre-Algebra Chapter 7; Geometry Proficiency; Geometry Chapter 8
8.G.5	Angle Sum Theorem; Exterior Angle Theorem; Transversal; Corresponding Angles; Corresponding Angles Postulate; Alternate Exterior Angles; Alternate Exterior Angle Theorem; Alternate Interior Angles; Alternate Interior Angle Theorem; AA Similarity	Pre-Algebra Chapter 7; Geometry Proficiency; Geometry Chapter 3
8.G.6	Pythagorean Theorem	Pre-Algebra Chapter 8; Algebra 1 Proficiency; Geometry Chapter 7
8.G.7	Pythagorean Theorem; Pythagorean Triples	Pre-Algebra Chapter 8;

		Algebra 1 Proficiency
8.G.8	Pythagorean Theorem; Distance Formula	Pre-Algebra Proficiency; Pre- Algebra Chapter 8; Algebra 1 Proficiency; Geometry Proficiency
8.G.9	Volume of a Cone; Volume of a Prism; Volume of a Cylinder; Volume of a Sphere	Pre-Algebra Chapter 9; Geometry Chapter 11
8.SP.1	Scatter Plots	Algebra 1 Proficiency; Algebra 1 Chapter 11
8.SP.2	Line of Best Fit (Eyeball Method)	
8.SP.3	Modeling type (see below)	
8.SP.4	Modeling type (see below)	
N-RN.1	Rational Exponents	Algebra 1 Chapter 8
N-RN.2	Properties of Exponents; Properties of Square Roots; Simplifying Radical Expressions; Nth Roots	Algebra 1 Chapter 6
N-RN.3	To be added soon	<u> </u>
N-Q.1	Unit Analysis; Convert Units of Area and Volume; Convert Between Systems	Pre-Algebra Chapter 11
N-Q.2	Modeling type (see below)	<u> </u>
N-Q.3	Significant Digits	
N-CN.1	Complex Numbers	Algebra 2 Proficiency; Algebra 2 Chapter 5
N-CN.2	Operations with Complex Numbers; Adding and Subtracting Complex Numbers; Multiplying Complex Numbers	Algebra 2 Proficiency; Algebra 2 Chapter 5
N-CN.3	Operations with Complex Numbers; Dividing Complex Numbers; Conjugates; Absolute Value of a Complex Number	Algebra 2 Proficiency; Algebra 2 Chapter 5
N-CN.4 (+)	To be added soon	<u>l</u>

N-CN.5 (+)	To be added soon	
N-CN.6 (+)	To be added soon	
N-CN.7	Quadratic Formula	Algebra 1 Chapter 10
N-CN.8 (+)	To be added soon	
N-CN.9 (+)	Fundamental Theorem of Algebra	
N-VM.1 (+)	Vectors; Magnitude and Direction of Vectors	Geometry Chapter 7
N-VM.2 (+)	Vectors	Geometry Chapter 7
N-VM.3 (+)	To be added soon	
N-VM.4 (+)	To be added soon	
N-VM.5 (+)	To be added soon	
N-VM.6 (+)	Matrices	Algebra 2 Proficiency; Algebra 2 Chapter 4
N-VM.7 (+)	Scalar Multiplication of Matrices	Algebra 2 Proficiency; Algebra 2 Chapter 4
N-VM.8 (+)	Adding and Subtracting Matrices; Compatible Matrices; Matrix Multiplication	Algebra 2 Proficiency; Algebra 2 Chapter 4
N-VM.9 (+)	Matrix Multiplication	Algebra 2 Proficiency; Algebra 2 Chapter 4
N-VM.10 (+)	Identity Matrix	Algebra 2 Chapter 4
N-VM.11 (+)	To be added soon	
N-VM.12 (+)	To be added soon	
A-SSE.1	Factors; Combining Like Terms	Pre-Algebra Proficiency; Pre- Algebra Chapter 1; Algebra 1 Proficiency
A-SSE.2	Factoring by Grouping; Difference of Squares; Perfect Squares	Algebra 1 Proficiency; Algebra 1 Chapter 6; Algebra 2 Chapter 5
A-SSE.3	Solving Quadratic Equations by Square Roots;	Algebra 1 Chapter 6; Algebra 2
·		

	Completing the Square; Vertex of a Parabola; Exponential Functions	Proficiency
A-SSE.4	Sum of a Finite Geometric Series; Geometric Sequences	Algebra 2 Proficiency; Algebra 2 Chapter 9
A-APR.1	To be added soon	
A-APR.2	Remainder Theorem	
A-APR.3	Graphing Polynomial Functions	Algebra 2 Chapter 6
A-APR.4	To be added soon	
A-APR.5 (+)	Binomial Theorem; Yang Hui's Triangle	
A-APR.6	Dividing Polynomials; Simplifying Rational Expressions	Algebra 2 Proficiency; Algebra 2 Chapter 7
A-APR.7 (+)	To be added soon	
A-CED.1	Modeling type (see below)	
A-CED.2	Graphing Linear Equations; Graphing Linear Inequalities in Two Variables; Graphing Quadratic Equations	Algebra 1 Chapter 2; Algebra 1 Chapter 4; Algebra 1 Chapter 10
A-CED.3	Modeling type (see below)	
A-CED.4	Formulas	Algebra 1 Chapter 1; Algebra 2 Chapter 1
A-REI.1	To be added soon	
A-REI.2	Solving Rational Equations; Solving Radical Equations; Extraneous Solutions	Algebra 1 Chapter 7; Algebra 1 Chapter 8
A-REI.3	Solving One-Step Linear Equations; Solving Linear Equations; Solving One-Step Linear Inequalities; Solving Linear Inequalities	Algebra 1 Proficiency; Algebra 1 Chapter 1; Algebra 1 Chapter 4
A-REI.4	Solving Quadratic Equations by Square Roots; Completing the Square; Solving Quadratic Equations Using Factoring; Quadratic Formula	Algebra 1 Proficiency; Algebra 1 Chapter 10
A-REI.5	To be added soon	1

A-REI.6	Solving Systems of Linear Equations; Solving Systems of Linear Equations Using Graphing; Solving Systems of Linear Equations Using Substitution; Solving Systems of Linear Equations Using Elimination	Algebra 1 Proficiency; Algebra 1 Chapter 5
A-REI.7	Solving Systems of Linear Equations	Algebra 1 Proficiency; Algebra 1 Chapter 5
A-REI.8 (+)	To be added soon	
A-REI.9 (+)	Solving Systems of Linear Equations Using Matrices; Inverse of a Matrix	Algebra 2 Chapter 4
A-REI.10	To be added soon	
A-REI.11	Explain type	
A-REI.12	Graphing Linear Inequalities in Two Variables; Systems of Linear Inequalities	Algebra 2 Proficiency; Algebra 2 Chapter 3
F-IF.1	Domains; Domain and Range; Functions	Algebra 1 Proficiency; Algebra 1 Chapter 9; Algebra 2 Chapter 2
F-IF.2	Functions	Algebra 1 Chapter 9; Algebra 2 Chapter 2
F-IF.3	Sequences; Recursive Sequences; Fibonacci Numbers	Algebra 2 Proficiency; Algebra 2 Chapter 9
F-IF.4		
F-IF.5	Domains; Domain and Range	Algebra 1 Chapter 9; Algebra 2 Chapter 2
F-IF.6	Domains; Domain and Range	Algebra 1 Chapter 9; Algebra 2 Chapter 2
F-IF.7	Graphing Linear Equations; Graphing Quadratic Equations; x-Intercepts; x-Intercepts of a Parabola; y-Intercepts; Graphing Square Root Functions; Vertex of a Parabola; Piecewise- Defined Functions; Graphing Polynomial Functions; Graphing Exponential and Logarithmic	Algebra 1 Proficiency; Algebra 2 Proficiency; Algebra 2 Chapter 1; Algebra 2 Chapter 5; Algebra 2 Chapter 6; Algebra 2 Chapter 8

	Functions	
F-IF.8	Axis of Symmetry of a Parabola; Vertex of a Parabola; x-Intercepts of a Parabola; Exponential Functions; Exponential Decay	Algebra 2 Proficiency; Algebra 2 Chapter 5; Algebra 2 Chapter 8
F-IF.9	Functions	Algebra 1 Proficiency; Algebra 1 Chapter 9; Algebra 2 Chapter 2
F-BF.1	Functions; Composition of Functions	Algebra 2 Proficiency; Algebra 2 Chapter 7
F-BF.2	Geometric Sequences; Arithmetic Sequences	Algebra 2 Chapter 9
F-BF.3	Graphing Exponential and Logarithmic Functions; Parabolas	Algebra 2 Chapter 5; Algebra 2 Chapter 8
F-BF.4	Inverse Functions	Algebra 2 Proficiency; Algebra 2 Chapter 7
F-BF.5 (+)	Exponential and Logarithmic Functions; Logarithmic to Exponential Form	Algebra 2 Proficiency; Algebra 2 Chapter 8
F-LE.1	Modeling Type (see below)	
F-LE.2	Modeling Type (see below)	
F-LE.3	Modeling Type (see below)	
F-LE.4	Modeling Type (see below)	
F-LE.5	Modeling Type (see below)	
F-TF.1	Radian Measure of an Angle; Radian to Degree Measure	Algebra 2 Chapter 10
F-TF.2	Trigonometric Ratios; Reference Angle	Algebra 2 Chapter 10
F-TF.3 (+)	Trigonometric Values for Common Angles; 30-60-90 Triangles; 45-45-90 Triangles	Algebra 2 Chapter 10
F-TF.4 (+)	Reference Angle; Even and Odd Functions; Trigonometric Functions; Co-Function and Odd/Even Identities	

F-TF.5	Modeling type (see below)	
F-TF.6 (+)	Inverse Trigonometric Functions	
F-TF.7 (+)	Inverse Trigonometric Functions	
F-TF.8	Trigonometric Identities	Algebra 2 Chapter 11
F-TF.9 (+)	Trigonometric Identities	
G-CO.1	Angles; Circle; Perpendicular Lines; Parallel and Perpendicular Lines; Lines, Segments, and Rays; Arcs	Geometry Chapter 1
G-CO.2	Transformations of Graphs; Center of Rotation	Geometry Proficiency; Geometry Chapter 8
G-CO.3	Line Symmetry	Geometry Proficiency; Geometry Chapter 8
G-CO.4	Transformations of Graphs	Geometry Proficiency; Geometry Chapter 8
G-CO.5	Transformations of Graphs	Geometry Proficiency; Geometry Chapter 8
G-CO.6	Transformations of Graphs	Geometry Proficiency; Geometry Chapter 8
G-CO.7	Congruent Triangles	Geometry Proficiency
G-CO.8	Congruent Triangles; AAS Postulate; ASA Postulate; SAS Postulate	Geometry Proficiency; Geometry Chapter 4
G-CO.9	Vertical Angles; Alternate Interior Angles Theorem; Alternate Exterior Angles Theorem; Alternate Interior Angles; Alternate Exterior Angles; Corresponding Angles; Corresponding Angles Postulate; Perpendicular Transversal Theorem; Perpendicular Bisector	Geometry Proficiency; Geometry Chapter 3
G-CO.10	Angle Sum Theorem; Isosceles Triangle Theorem; Converse of the Isosceles Triangle Theorem; Medians of a Triangle; Triangle Midsegment Theorem; Triangle Inequality Theorem; Triangle	Geometry Proficiency; Geometry Chapter 4

	Angle Bisector Theorem		
G-CO.11	Parallelogram; Diagonals of a Parallelogram	Geometry Proficiency;	
		Geometry Chapter 5	
G-CO.12	Drawing/construction type (see below)		
G-CO.13	Drawing/construction type(see below)		
G-SRT.1	Dilation; Scale Factor	Geometry Proficiency;	
		Geometry Chapter 6	
G-SRT.2	Similar Triangles; SSS Similarity	Geometry Proficiency;	
		Geometry Chapter 6	
G-SRT.3	AA Similarity	Geometry Proficiency;	
		Geometry Chapter 6	
G-SRT.4	Triangle Proportionality Theorem	Geometry Proficiency;	
		Geometry Chapter 6	
G-SRT.5	Similar Triangles	Geometry Proficiency;	
		Geometry Chapter 6	
G-SRT.6	Trigonometric Ratios	Geometry Proficiency;	
		Geometry Chapter 7	
G-SRT.7	Trigonometric Identities; Co-Function and		
	Odd/Even Identities	Geometry Chapter 7	
G-SRT.8	Trigonometric Ratios	Geometry Proficiency;	
		Geometry Chapter 7	
G-SRT.9 (+)	To be added soon		
G-SRT.10 (+)	Law of Sines; Law of Cosines	Geometry Proficiency;	
		Algebra 2 Proficiency	
G-SRT.11 (+)	Law of Sines; Law of Cosines	Geometry Proficiency;	
		Algebra 2 Proficiency	
G-C.1	To be added soon		
G-C.2	Central Angles; Radius; Chord	Geometry Proficiency;	
		Geometry Chapter 9	

G-C.3	Inscribing a Quadrilateral	Geometry Chapter 5	
G-C.4 (+)	Drawing/construction type (see below)		
G-C.5	Sectors; Intersecting Chords	Geometry Proficiency;	
		Geometry Chapter 9	
G-GPE.1	Equation of a Circle	Geometry Proficiency;	
G-GPE.2	Focus; Parabolas		
G-GPE.3 (+)	Ellipse; Hyperbolas; Major and Minor Axes of		
	Conics; Focus		
G-GPE.4	To be added soon		
G-GPE.5	Slope; Parallel and Perpendicular Lines	Geometry Proficiency;	
		Geometry, Chapter 3	
G-GPE.6	Segment Addition Postulate	Geometry Proficiency;	
		Geometry, Chapter 1	
G-GPE.7	Perimeter; Distance Formula	Geometry Proficiency;	
		Geometry, Chapter 7	
G-GMD.1	Circle	Geometry Proficiency;	
		Geometry, Chapter 9	
G-GMD.2 (+)	To be added soon		
G-GMD.3	Volume of a Cone; Volume of a Cylinder; Volume	Geometry Proficiency;	
	of a Pyramid; Volume of a Sphere	Geometry, Chapter 11	
G-GMD.4	To be added soon		
G-MG.1	Modeling type		
G-MG.2	Modeling type (see below)		
G-MG.3	Modeling type (see below)		
S-ID.1	Line Plots; Box-and-Whisker Plots	Pre-Algebra Proficiency; Algebra 1 Proficiency; Algebra 1, Chapter 11	
S-ID.2	Mean, Median, Mode; Interquartile; Standard Deviation; Normal Distribution	Pre-Algebra Proficiency; Algebra 1 Proficiency; Algebra	

		1, Chapter 11
S-ID.3	Mean, Median, Mode	Pre-Algebra Proficiency; Algebra 1 Proficiency;
S-ID.4	To be added soon	<u> </u>
S-ID.5	Coming soon	
S-ID.6	Scatter Plots	Algebra 1 Proficiency; Algebra 1, Chapter 11; Algebra 2, Chapter 2
S-ID.7	To be added soon	
S-ID.8	Line of Best Fit	Algebra 1, Chapter 11
S-ID.9	Correlation and Causal Relation	Algebra 1, Chapter 11
S-IC.1	Random Sampling	Algebra 1, Chapter 13
S-IC.2	To be added soon	
S-IC.3	Random Sampling	Algebra 1, Chapter 13
S-IC.4	To be added soon	<u> </u>
S-IC.5	To be added soon	
S-IC.6	To be added soon	
S-CP.1	Sample Space; Complement of an Event	Algebra 1, Chapter 13
S-CP.2	Independent and Dependent Events; Independent Events	Algebra 1, Chapter 13
S-CP.3	Conditional Probability; Independent and Dependent Events	Algebra 1, Chapter 13
S-CP.4	Modeling type (see below)	
S-CP.5	Conditional Probability; Independent and Dependent Events; Independent Events	Algebra 1, Chapter 13
S-CP.6	Conditional Probability	Algebra 1, Chapter 13
S-CP.7	Mutually Exclusive Events	Algebra 1, Chapter 13

S-CP.8 (+)	To be added soon	
S-CP.9 (+)	Permutations; Combinations	Algebra 1, Chapter 13
S-MD.1 (+)	To be added soon	
S-MD.2 (+)	To be added soon	
S-MD.3 (+)	To be added soon	
S-MD.4 (+)	To be added soon	
S-MD.5 (+)	To be added soon	
S-MD.6 (+)	To be added soon	
S-MD.7 (+)	To be added soon	

There a few types of standards which are not covered, for the reasons detailed below.

Modeling

While five of the six conceptual categories—Number and Quantity, Algebra, Functions, Geometry, and Statistics/Probability—are well-covered, the sixth category, modeling is best done outside of programs Catchup Math. Our program aims to give students the practice they need to master the core skills and cement their conceptual understanding; *applying* these skills and concepts to real-world problems is better practiced in the classroom. Still, where possible, Catchup Math does include word problems which require students to find mathematical models for a described situation.

Explain/Prove

Some standards state that a student is expected to "explain why" or "prove" that something is true. Through activities, videos, and practice problems and our online whiteboard, Catchup Math gives students the tools they need to explain concepts and prove theorems. However, the program cannot assess the student's ability to make a strong verbal argument or write a valid proof; this is necessarily left to the classroom teacher.

Drawing/Constructions

Certain types of drawing and construction skills are not covered by Catchup Math, for example: geometric constructions with ruler and compass; drawings of two-dimensional representations of three-dimensional objects on isometric grid paper.