

# Algebra-Readiness Curriculum Map 2013-2014

 Ms. Straus 

Unit & Gov't Standards	Vocabulary	Skills	Assessments	Personalization
Fractions, Decimals, and Percents  NS 1.3 NS 1.5 NS 1.2 NS 1.7 NS 1.6 AF 4.2 ----- 6.NS1.4 6.NS2.0 ----- Alg 5.0 ----- 7.RP.3 (CC) 7.EE.3 (CC)	-fraction -decimal -decimal point -terminating decimal -repeating decimal -ratio; -rate; -unit rate; -percent -proportion -cross product -percent proportion -percentage ----- -base -part -base ----- -percent equation -discount; -tip -commission -mark-up -simple interest -compound interest -principal -percent of change -percent of increase -percent of decrease	RSCS I Can 7.2 RSCS I Can 7.3 -Fractions to Decimals -Ratios and rates -Fractions, Decimals, Percents -Proportions and Proportional Reasoning -Percent Proportion -Discounts, Taxes, Tips Markups, Commissions, Profit -Simple Interest -Compound Interest -Percent of Change	-End of Unit Test -Mastery Quiz 7.2 -Mastery Quiz 7-3	-small group instruction -real-world applications -pictorial representations -tiered stations -varied homework -end of unit tic-tac-toe projects -exemplars of work posted -technology incorporation

Variables, Expressions, and Properties	-understand -plan -solve -check	RSCS I Can 7.5 -a plan for problem solving -expressions & equations -order of operations	-Mid-Unit Quiz -End of Unit Test -Mastery Quiz 7.5 -Milestone 1	-small group instruction -real-world applications -pictorial representations -tiered stations
AF 1.1	-numerical expression	-commutative and associative properties	(+ Milestone 7.6)	-varied homework
MR 1.2	-algebraic expression	-problem solving: guess & check		-end of unit tic-tac-toe projects
MR 3.3	-variable	-other properties		-exemplars of work posted
NS 1.2	-equation	-simplifying expressions		-technology incorporation
AF 2.1	-order of operations			
AF 1.3	-base			
MR 2.4	-exponent			
MR 2.8	-property			
MR 2.5	-commutative property -associative property			
-----	-distributive property			
6AF 1.0	-guess and check -identity property			
-----	-multiplicative property			
Alg 4.0				
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7.EE.2 (CC)				
7.EE.3 (CC)				

Integers and Equations	<ul style="list-style-type: none"> <li>-equation</li> <li>-solve</li> <li>-solution</li> <li>-define</li> <li>-integer</li> <li>-opposite</li> <li>-absolute value</li> <li>-additive inverse</li> <li>-distributive property</li> <li>-factor</li> <li>-product</li> <li>-quotient</li> <li>-look for a pattern</li> <li>-inverse operation</li> <li>-one-step equation</li> <li>-two-step equation</li> </ul>	<p>RSCS I Can 7.1 (start)</p> <ul style="list-style-type: none"> <li>-equations</li> <li>-integers</li> <li>-adding and subtracting integers</li> <li>-multiplying integers</li> <li>-dividing integers</li> <li>-problem solving: look for a pattern</li> <li>-solving equations</li> </ul>	<ul style="list-style-type: none"> <li>-Mid-Unit Quiz</li> <li>-End of Unit Test</li> </ul>	<ul style="list-style-type: none"> <li>-small group instruction</li> <li>-real-world applications</li> <li>-pictorial representations</li> <li>-tiered stations</li> <li>-varied homework</li> <li>-end of unit tic-tac-toe projects</li> <li>-exemplars of work posted</li> <li>-technology incorporation</li> </ul>
NS 1.2				
AF 1.3				
MR 3.3				
MR 1.1				
MR 2.6				
AF 4.1				
-----				
Alg 2.0				
Alg 5.0				
-----				
6AF 1.1				
-----				
7.NS.1 (CC)				
7.NS.2 (CC)				
7.NS.3 (CC)				

Fractions	-fraction	RSCS I Can 7.1 (middle)	-Mid-Unit Quiz	-small group instruction
MR 2.0	-rational number	-fractions	-End of Unit Test	-real-world applications
MR 2.5	-additive inverse	-fractions and mixed numbers		-pictorial representations
NS 1.2	-proper fraction	-factors and simplifying fractions		-tiered stations
MR 2.1	-improper fraction	-problem-solving: draw a picture		-varied homework
AF 4.1	-mixed number	-multiplying fractions		-end of unit tic-tac-toe projects
-----	-equivalent fraction	-dividing fractions		-exemplars of work posted
6NS 2.1	-prime number	-adding and subtracting fractions with like denominators		-technology incorporation
6NS 2.2	-composite number	-adding fractions with unlike denominators		
6NS 1.1	-factor	-subtracting fractions with unlike denominators		
6NS 1.1	-common factor	-fractions in expressions and equations		
6NS 1.1	-greatest common factor (GCF)			
5NS 1.4	-simplest form			
-----	-product			
Alg 5.0	-reciprocal			
	-multiplicative inverse			
	-inverse property of multiplication			
	-like/common denominators			
	-unlike denominators			
	-least common multiple (LCM)			
	-least common denominator (LCD)			
	-expression			
	-equation			
	-solve			
	-inverse operations			

<p>Decimals</p> <p>NS 1.3</p> <p>NS 1.5</p> <p>NS 1.2</p> <p>AF 1.3</p> <p>MR 2.5</p> <p>AF 4.1</p> <p>-----</p> <p>Alg 5.0</p>	<ul style="list-style-type: none"> <li>-fraction</li> <li>-decimal</li> <li>-decimal point</li> <li>-terminating decimal</li> <li>-repeating decimal</li> <li>-commutative property</li> <li>-associative property</li> <li>-identity property</li> <li>-factor</li> <li>-multiplicative property</li> <li>-distributive property</li> <li>-round</li> <li>-expression</li> <li>-equation</li> </ul>	<p>RSCS I Can 7.1 (end)</p> <ul style="list-style-type: none"> <li>-adding and subtracting decimals</li> <li>-multiplying decimals</li> <li>-dividing decimals</li> <li>-problem solving: work backwards</li> <li>-decimals in expressions and equations</li> </ul>	<ul style="list-style-type: none"> <li>-Mid-Unit Quiz</li> <li>-End of Unit Test</li> <li>-Mastery Quiz 7.1</li> </ul>	<ul style="list-style-type: none"> <li>-small group instruction</li> <li>-real-world applications</li> <li>-pictorial representations</li> <li>-tiered stations</li> <li>-varied homework</li> <li>-end of unit tic-tac-toe projects</li> <li>-exemplars of work posted</li> <li>-technology incorporation</li> </ul>
<p>Exponents &amp; Roots</p> <p>AF 2.1</p> <p>NS 2.1</p> <p>MR 2.2</p> <p>-----</p> <p>6NS 1.1</p> <p>-----</p> <p>Alg 2.0</p>	<ul style="list-style-type: none"> <li>-powers</li> <li>-product of powers</li> <li>-quotient of powers</li> <li>-power of powers</li> <li>-negative exponent</li> <li>-square root</li> <li>-radical sign</li> <li>-radicand</li> <li>-formula</li> <li>-rational number</li> </ul>	<p>RSCS I Can 7.4</p> <ul style="list-style-type: none"> <li>-exponents</li> <li>-integer exponents</li> <li>-problem solving: solve a simpler problem</li> <li>-roots</li> <li>-simplifying and evaluating expressions</li> <li>-comparing &amp; ordering rational numbers</li> </ul>	<ul style="list-style-type: none"> <li>-Mid-Unit Quiz</li> <li>-End of Unit Test</li> <li>-Mastery Quiz 7.4</li> </ul>	<ul style="list-style-type: none"> <li>-small group instruction</li> <li>-real-world applications</li> <li>-pictorial representations</li> <li>-tiered stations</li> <li>-varied homework</li> <li>-end of unit tic-tac-toe projects</li> <li>-exemplars of work posted</li> <li>-technology incorporation</li> </ul>

<p>Equations and Inequalities</p> <p>AF 4.1 AF 1.1</p> <p>-----</p> <p>7.EE.3 (CC) 7.EE.4 (CC)</p>	<ul style="list-style-type: none"> <li>-two-step equation</li> <li>-null or empty set</li> <li>-identity</li> <li>-inequality</li> </ul>	<p>RSCS I Can 7.8</p> <ul style="list-style-type: none"> <li>-2 step equations (3-6)</li> <li>-variables on both sides</li> <li>-equations with grouping</li> <li>-inequalities</li> <li>-inequalities with adding and subtracting</li> <li>-inequalities with multiplying and dividing</li> <li>-multi-step inequalities</li> </ul>	<ul style="list-style-type: none"> <li>-Mid-Unit Quiz</li> <li>-End of Unit Test</li> <li>-Mastery Quiz 7.8</li> </ul>	<ul style="list-style-type: none"> <li>-small group instruction</li> <li>-real-world applications</li> <li>-pictorial representations</li> <li>-tiered stations</li> <li>-varied homework</li> <li>-end of unit tic-tac-toe projects</li> <li>-exemplars of work posted</li> <li>-technology incorporation</li> </ul>
<p>Algebra on the Coordinate Plane</p> <p>MR 2.5 AF 3.4 MG 1.3 AF 3.3 MG 3.3</p> <p>-----</p> <p>5AF 1.4</p>	<ul style="list-style-type: none"> <li>-ordered pair</li> <li>-coordinate plane</li> <li>-x-axis</li> <li>-y-axis</li> <li>-origin</li> <li>-quadrant</li> <li>-coordinate</li> <li>-scatter plot</li> <li>-trend</li> <li>-linear relationship</li> <li>-dimensional analysis</li> <li>-density</li> <li>-slope</li> <li>-rise</li> <li>-run</li> <li>-function</li> <li>-nonlinear</li> <li>-Pythagorean Theorem</li> <li>-converse</li> <li>-hypotenuse</li> <li>-legs</li> </ul>	<p>RSCS I Can 7.7</p> <ul style="list-style-type: none"> <li>-the coordinate plane</li> <li>-problem solving: draw a graph</li> <li>-relationships involving equal ratios</li> <li>-measures as rates and products</li> <li>-slope</li> <li>-linear functions</li> <li>-Pythagorean Theorem (key skill)</li> </ul>	<ul style="list-style-type: none"> <li>-Mid-Unit Quiz</li> <li>-End of Unit Test</li> <li>-Mastery Quiz 7.7</li> <li>-Milestone 2</li> </ul> <p>+ Mastery Quiz 7.9 &amp; 7.10</p>	<ul style="list-style-type: none"> <li>-small group instruction</li> <li>-real-world applications</li> <li>-pictorial representations</li> <li>-tiered stations</li> <li>-varied homework</li> <li>-end of unit tic-tac-toe projects</li> <li>-exemplars of work posted</li> <li>-technology incorporation</li> </ul>

Data MR 2.5 SDAP 1.1 SDAP 1.3  ----- 7.SP.4 (CC)	-measures of central tendency -mean -median -mode -stems -leaves -measures of variation -range -quartiles (upper and lower) -interquartile range -box-and-whisker	RSCS Key Skill -measures of central tendency -stem-and-leaf plots -measures of variation -box-and-whisker plots -scatter plots	-End-of-Unit Quiz -Milestone 3 (INSPECT CST) -Mastery Quiz 7.6	-small group instruction -real-world applications -pictorial representations -tiered stations -varied homework -end of unit tic-tac-toe projects -exemplars of work posted -technology incorporation
Algebra & CAHSEE Preparation	Standards: AF 3.1, 3.2 MG 2.1, 2.2, 2.3, 2.4, 3.1, 3.4, 3.6 (7.G.3, 7.G.6 (CC))			

## NOTES TO PARENTS:

✧ CC stands for Common Core Curriculum Standards (new standards being implemented in all states)

✧ CAHSEE stands for California High School Exit Exam

✧ Mastery Quizzes are written by RSCS and have 5 Multiple Choice questions on them to assess mastery (do students really understand?) of the RSCS I Can statement (see [www.teamstraus.com](http://www.teamstraus.com)) for more information on I Can statements.

✧ Milestone Tests are written by RSCS and have 20 Multiple Choice questions on them to assess mastery AND retention (keeping the information in students' brains over a period of time) of the I Can statements learned in the past.

✧ Common Core Transition: 7.G.4, 7.G.5, 7.SP.1, 7.SP.2, 7.SP.3, 7.SP.5, 7.SP.6, 7.SP.7, 7.SP.8 (CC) are currently Gr. 6 California Standards and will become Gr. 7 standards with full CCSS implementation in 2014-2015.