

Pre-Algebra Curriculum Map 2013-2014

 Ms. Straus 

Unit & Gov't Standards	Vocabulary	Skills	Assessments	Personalization
Fractions, Decimals, and Percents NS 1.3 NS 1.7 NS 1.6 ----- 7.RP.3 (CC) 7.EE.3 (CC)	-percent -percent proportion -part -base -percent equation -discount -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 to Percents -Percent Proportions -Percent Equations -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

<p>The Tools of Algebra</p> <p>AF 1.1 AF 1.2 AF 1.3 AF 1.4 AF 1.5 SDAP 1.2</p> <p>-----</p> <p>7.EE.2 (CC) 7.EE.3 (CC)</p>	<ul style="list-style-type: none"> -numerical expression -evaluate; -order of operations -variable; -algebraic expression -defining a variable -properties -commutative property -associative property -counterexample -simplify; -deductive reasoning -equation; -open sentence -solution; -solving the equation -coordinate system; -domain -range; scatter plot 	<p>RSCS I Can 7.5</p> <ul style="list-style-type: none"> -numbers and expressions -variables and expressions -properties of addition and multiplication -variables and equations -ordered pairs and relations -scatter plots 	<ul style="list-style-type: none"> -Mid-Unit Quiz -End of Unit Test -Mastery Quiz 7.5 -Milestone Test 1 	<ul style="list-style-type: none"> -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
<p>Integers</p> <p>NS 2.5 NS 1.2 AF 1.5</p> <p>-----</p> <p>7.NS.1 (CC) 7.NS.2 (CC) 7.NS.3 (CC)</p>	<ul style="list-style-type: none"> -negative number -integers -coordinate -inequality -absolute value -opposites -additive inverse -average (mean) -quadrants 	<p>RSCS I Can 7.1 (start)</p> <ul style="list-style-type: none"> -integers and absolute value -adding integers -subtracting integers -multiplying integers -dividing integers -coordinate system 	<ul style="list-style-type: none"> -Mid-Unit Quiz -End of Unit Test 	<ul style="list-style-type: none"> -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

<p>Rational Numbers</p> <p>NS 1.3</p> <p>NS 1.5</p> <p>NS 2.3</p> <p>MG 1.1</p> <p>NS 1.2</p> <p>MR 2.1</p> <p>MR 3.2</p> <p>NS 2.2</p>	<ul style="list-style-type: none"> -terminating decimal -mixed number -repeating decimal -rational number -dimensional analysis -multiplicative inverses -reciprocals -multiple -common multiples -least common multiple (LCM) -least common denominator (LCD) 	<p>RSCS I Can 7.1 (finish)</p> <ul style="list-style-type: none"> -fractions as decimals -rational numbers -multiplying rational numbers -dividing rational numbers -adding and subtracting like fractions -least common multiple -adding and subtracting unlike fractions 	<ul style="list-style-type: none"> -Mid-Unit Quiz -End of Unit Test -Mastery Quiz 7.1 	<ul style="list-style-type: none"> -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
<p>Exponents</p> <p>AF 2.1</p> <p>AF 2.2</p> <p>NS 2.3</p> <p>NS 2.1</p> <p>NS 1.1</p> <p>NS 2.4</p>	<ul style="list-style-type: none"> -base -exponent -power -standard form -expanded form -prime number -composite number -prime factorization -factor tree -factor -scientific notation -perfect square -square root -radical sign 	<p>RSCS I Can 7.4</p> <ul style="list-style-type: none"> -powers and exponents -prime factorization -multiplying and dividing monomials -negative exponents -scientific notation -squares and square roots 	<ul style="list-style-type: none"> -Mid-Unit Quiz -End of Unit Test -Mastery Quiz 7.4 	<ul style="list-style-type: none"> -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

<p>Equations</p> <p>AF 1.1 AF 1.3 AF 1.4 MG 1.3 AF 4.1</p> <p>-----</p> <p>7.EE.1 (CC) 7.EE.3 (CC) 7.EE.4 (CC)</p>	<ul style="list-style-type: none"> -equivalent expressions -distributive property -term -coefficient -like terms -constant -simplest form -simplifying an expression -inverse operation -equivalent equations -two-step equation 	<p>RSCS I Can 7.8 (start)</p> <ul style="list-style-type: none"> -distributive property -simplifying expressions -adding and subtracting equations -multiplying and dividing equations -2 step equations 	<ul style="list-style-type: none"> -Mid-Unit Quiz -End of Unit Test 	<ul style="list-style-type: none"> -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
<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"> -null or empty set -identity -inequality 	<p>RSCS I Can 7.8 (finish)</p> <ul style="list-style-type: none"> -variables on both sides -equations with grouping -inequalities -inequalities with adding and subtracting -inequalities with multiplying and dividing -multi-step inequalities 	<ul style="list-style-type: none"> -Mid-Unit Quiz -End of Unit Test -Mastery Quiz 7.8 	<ul style="list-style-type: none"> -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

<p>Triangles</p> <p>MG 3.3</p> <p>MG 3.2</p> <p>-----</p> <p>7.G.2 (CC)</p>	<ul style="list-style-type: none"> -point -ray -line -angle -vertex -degree -line segment -types of triangles -legs -hypotenuse -Pythagorean Theorem -converse -distance formula -midpoint -midpoint formula 	<p>RSCS Key Skill</p> <ul style="list-style-type: none"> -Angles -Triangles -Pythagorean Theorem -Distance and Midpoint formulas 	<p>-End-of Unit Quiz</p>	<ul style="list-style-type: none"> -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
<p>Functions and Graphing</p> <p>AF 1.5</p> <p>AF 3.3</p> <p>AF 3.4</p> <p>AF 1.1</p> <p>AF 4.2</p>	<ul style="list-style-type: none"> -linear equation -x-intercept -y-intercept -slope -rate of change -direct variation -constant of variation -slope-intercept form 	<p>RSCS I Can 7.7</p> <ul style="list-style-type: none"> -Linear equations in 2 variables -Graphing linear equations using intercepts -slope -rate of change -slope-intercept form -writing linear equations 	<ul style="list-style-type: none"> -Mid-Unit Quiz -End of Unit Test -Mastery Quiz 7.7 -Milestone 2 	<ul style="list-style-type: none"> -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

<p>Ratios and Rates</p> <p>MG 1.3 MG 1.2 MR 2.8 AF 4.2</p> <p>-----</p> <p>7.RP.1 (CC) 7.RP.2 (CC) 7.G.1 (CC)</p>	<ul style="list-style-type: none"> -ratio -rate -unit rate -proportion -cross products 	<p>RSCS I Can 7.9 & 7-10</p> <ul style="list-style-type: none"> -ratios and rates -using proportions -scale -distance = rate x time (review from rational numbers unit) -direct variation (review from previous unit) 	<ul style="list-style-type: none"> -End-of Unit Quiz -Mastery Quiz 7.9 & 7-10 -Milestone Test 2 	<ul style="list-style-type: none"> -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
<p>Data</p> <p>MR 2.5 SDAP 1.1 SDAP 1.3</p> <p>-----</p> <p>7.SP.4 (CC)</p>	<ul style="list-style-type: none"> -measures of central tendency -mean -median -mode -stems -leaves -measures of variation -range -quartiles (upper and lower) -interquartile range -box-and-whisker 	<p>RSCS Key Skill</p> <ul style="list-style-type: none"> -measures of central tendency -stem-and-leaf plots -measures of variation -box-and-whisker plots 	<ul style="list-style-type: none"> -End-of-Unit Quiz -Mastery Quiz 7.6 -Milestone 3 (INSPECT CST) 	<ul style="list-style-type: none"> -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
<p>Algebra & CAHSEE Preparation</p>	<p>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))</p>			

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) 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.