Mt. Zion High School Curriculum Map

Name: S	tephanie Windhorst Department: Math	Subject: Algebra 1 Concepts	1	
Quarter	Essential Skills	Strategies and Activities	CC Standards	Assessments
1	Unit 1: Integers	note-taking	A.REI.1	Daily Homework
	-Students will compare and order	deltamath	7.NS.1b	Quiz 1-1 to 1-4
	integers, and find the absolute value of an	guided practice	7.NS.1c	Unit 1 Test
	expression.	individual practice	A.SSE.2	
	-Students will be able to choose an	integer maze	7.NS.2a	
	integer to represent a real-life situation.	integer escape room	A.SSE.2	
	-Students will locate an integer on a		7.NS.2b	
	number line.		A.REI.10	
	-Students will add two or more integers.			
	-Students will subtract integers.			
	-Students will multiply integers.			
	-Students will divide integers.			
	-Students will use the order of operations			
	to solve problems containing integers.			
	-Students will solve word problems			
	containing integers.			
	-Students will evaluate algebraic			
	expressions containing integers.			
	-Students will write algebraic expressions			
	for a given verbal expression.			
		note-taking		
	Unit 2: Expressions and Equations	deltamath	A.SSE.1a	Daily Homework
	-Students will count terms in an algebraic	guided practice	A.SSE.2	Quiz 2-1 to 2-3
	expression.	individual practice	A.SSE.1b	Quiz 2-4 to 2-5
	-Students will identify coefficients.	Edpuzzle	A.REI.10	Quiz 2-6 to 2-7
	-Students will identify like and unlike	equation corrections activity		Unit 2 Test
	terms.			
	-Students will combine like terms to			
	simplify an expression.			
	-Students will use the distributive			
	property to simplify an expression.			
	-Students will use inverse operations to			
	solve a two-step equation.			
	-Students will write and solve a two-step			
	equation to model a given word problem.			

Quarter	Essential Skills	Strategies and Activities	CC Standards	Assessments
1	-Students will solve multi-step equations which require combining like terms and/or distributive property. -Students will solve equations with variables on both sides of the equal sign. -Students will write and solve a multi-step equation to model a given word problem.			
2	<u>Unit 3: Inequalities</u> -Students will use an inequality to represent a real-life scenario. -Students will graph inequalities on a number line. -Students will solve one-step inequalities. -Students will solve two-step inequalities. -Students will solve multi-step inequalities that require combining like terms and using the distributive property. -Students will write and solve an inequality for a given word problem.	note-taking deltamath guided practice individual practice Edpuzzle	A.REI.1 A.REI.3 A.CED.1	Daily Homework Quiz 3-1 to 3-4 Unit 3 Test
2	Unit 4: Linear Equations and Functions -Students will plot points on a coordinate plane. -Students will complete input-output tables. -Students will graphing a linear equation using a table. -Students will find rate of change. -Students will find slope using rise over run. -Students will find slope using the slope formula. -Students will identify the slope and y- intercept from an equation and from a graph.	note-taking deltamath guided practice individual practice Edpuzzle pixel art activity function maze desmos activity	7.RP.2 8.EE.5 F-IF	Daily Homework Quiz 4-1 to 4-3 Unit 4 Test

2	-Students will write an equation in slope- intercept form for a real-life scenario. -Students will graph lines using slope- intercept form. -Students will determine if a relation is a function (represented by a table, equation, and/or graph). -Students will determine if a function is a linear function. -Students will be able to write an equation in slope-intercept form when given two points on the line, or when given the graph of the line. -Students will be able to rewrite equations in slope-intercept that are given in			
3	 Stope-Intercept that are given in stope-intercept that are given in stope-intercept that are given in standard form. <u>Unit 5: Systems of Equations</u> Students will identify if a system of equations has one solution, no solution, or infinitely many solutions given the graph of the system. Students will determine if an ordered pair is a solution to a given system of equations. Students will be able to determine the solution of a system of equations given the graph of the system of equations given the graph of the system of equations. Students will solve systems of equations by graphing. Students will solve systems of equations using substitution. Students will solve systems of equations for a given word problem. 	note-taking deltamath guided practice individual practice Edpuzzle Breakout Activity	A.REI.5 A.REI.6	Daily Homework Quiz 5-1 Unit 5 Test
	Unit 6: Percents			

3	-Students will convert between fractions, decimals, and percents.	note-taking deltamath	7.EE.3 7.RP.2	Daily Homework Quiz 6-1 to 6-3
	 Students will solve percent problems. Students will solve problems using the simple interest formula. Students will solve percent word problems that include sales tax, gratuity, discounts, mark-ups, mark-downs, and commission. Students will solve problems involving percent of change. 	guided practice individual practice Edpuzzle pixel art activity restaurant activity	7.RP.3	Unit 6 Test
4	Unit 7: Exponents -Students will write powers in standard form and expanded form. -Students will evaluate expressions involving exponents. -Students will solve problems using order of operations involving exponents. -Students will simplify algebraic expressions using exponent rules. -Students will convert between standard form and scientific notation. -Students will find exact values and approximations of square roots and cube roots. -Students will simplify radical expressions. -Students will solve equations that contain square roots and cube roots.	note-taking deltamath guided practice individual practice Edpuzzle Google Slides Sort Breakout Activity	8.EE.1 8.EE.2 8.EE.3 8.EE.4	Daily Homework Quiz 7-1 to 7-4 Unit 7 Test
4	Unit 8: Polynomials -Students will write polynomials in standard form. -Students will identify if a polynomial is a monomial, binomial, or trinomial. -Students will determine the degree of a monomial. -Students will determine the degree of a	note-taking deltamath guided practice individual practice Edpuzzle polynomial maze	7.EE.1 A.SSE.1 A.APR.1	Daily Homework Quiz 8-1 to 8-3 Unit 8 Test

4	polynomial.		
	-Students will add and subtract		
	polynomials.		
	-Students will multiply a monomial by a		
	polynomial.		
	-Students will multiply two binomials.		
	-Students will factor a GCF from a		
	polynomial.		
	-Students will factor polynomials in the		
	form $ax^2 + bx + c$. when $a = 1$.		