Curriculum Map

Unit	Essential Questions	Standards & Skills	Common Assessments	Learning Activities	Resources/Technology	Unit Reflection
Unit Name: Equations, and Inequalities Quarter: 1 Length (Days): 8	Essential Questions 1. Using number lines to graph and order real numbers 2. Identify properties of real numbers 3. Use properties of real numbers 4. Solve linear equations 5. Solve simple linear inequalities 6. Solve compound inequalities 7. Find the slopes of lines 8. Classify lines as parallel, perpendicular, or neither based on slope 9. Graph linear inequalities in two variables	Standards & Skills CCSS: A.SSE.1 A.SSE.2 A-APR.1 A-CED.1 A-CED.2 A-CED.3 A-CED.4 A-REI.1 A-REI.2 A-REI.10 A-REI.12 MP1 MP2 MP4 MP5 MP6	Common Assessments Formative: Homework: pp. 7, 8: 1-41 eoo pp. 22, 23; 17-41 odds pp. 45, 46; 13-47 odds pp. 79, 80; 1-43 odds pp. 111, 112; 1-43 odds Chapter 1,2 Review Packet Summative: Chapter 1, 2 Test	Learning Activities Group work, Lecture, Teach-model-try, individual instruction as needed	Resources/Technology Star Board, graphing calculators, Geometer's Sketchpad Software, note outlines, text book, and related handouts	Unit Reflection This unit is the first of the school year and serves as review. It works as an excellent tool to reengage students into the math curriculum and allows me to assess the ability of each student on concepts they should have already learned. There are a wide variety of standards covered in this unit. Many of them are Algebra I standards that are reviewed.
Name: Systems of Linear Equations and Inequalities Quarter: 1 Length (Days): 9	 graph and solve systems of linear equations in two variables Use algebraic methods to solve linear systems. Solve systems of linear equations in three variables 	CCSS: A-REI.5 A-REI.6 A-REI.10 A-REI.11 MP1 MP2 MP4 MP5 MP6	Formative: Homework: pp. 142, 143; 1-29 and 41-51 odds pp. 52; 11-21 odds pp. 152, 153; 23-47 eoo p. 160, 27-49 oods p. 182; 24, 26, 30, 32 Chapter 3 Review Packet Summative: Chapter 3 Test	Group work, Lecture, Teach-model-try, individual instruction as needed	Star Board, graphing calculators, Geometer's Sketchpad Software, note outlines, text book, and related handouts	This unit concludes the review portion of the year and extends concepts further than they had been covered I previous courses. Once again, there are a wide variety of standards covered in this unit. Many of them are Algebra I standards that are reviewed.

Name: Matrices and	1. Add and subtract	CCSS:	Formative:	Group work, Lecture,	Star Board, graphing	This is the first unit that
Determinants	matrices	N-VM.6	Homework:	Teach-model-try,	calculators, Geometer's	introduces a topic the
Quarter: 1	2. Multiply matrices	N-VM.7	pp. 203, 204; 1-35 odds	individual instruction	Sketchpad Software,	students have never
Length (Days): 12	by scalars	N-VM.8	pp. 203, 204, 1-33 odds pp. 211, 212; 1-33 eoo	as needed	note outlines, text	covered before. It
Length (Days). 12	3. Solve matrix	N-VM.9	pp. 211, 212; 1-33 eoo pp. 211, 212; 2-34 eoe	as needed	book, and related	allows students to take
		N-VM.10			handouts	old concepts and apply
	equations.		p. 218; 13-29 odds		nandouts	1 11 5
	4. Multiply matrices	A-REI.9	p. 219; 37-53 odds			them in new ways.
	5. Evaluate the	MP1 MP2	pp. 227, 228; 13-23			A loss and all a fith a
	determinant of $2x^2$ and	MP2 MP4	odds, 33, 35			Almost all of the
	3x3 matrices	MP5	pp. 233, 234; 23-39			standards related to
	6. Use Cramer's rule to		odds Chantan 4 Daview			matrices are covered in
	solve systems of linear	MP6	Chapter 4 Review			this unit. The only
	equations 7. Find and use inverse		Packet			matrix standards that
	matrices		S			are not covered are
			Summative:			related to vectors. To
	8. Solve systems of		1. Chapter 4 Test			address these standards
	linear equations using		2. Matrix coding			and other standards
	inverse matrices		alternative assessment			related to vectors, a
						unit on vectors may have to be added to the
						curriculum.
						curriculum.
Name: Quadratic	1. Graph Quadratic	CCSS:	Formative:	Group work, Lecture,	Star Board, graphing	This unit introduces to
Functions	Functions	N-CN.1	Homework:	Teach-model-try,	calculators, Geometer's	graphs of equations that
Quarter: 1/2	2. Factor quadratic	N-CN.2	pp. 253, 254; 20-48 eoo	individual instruction	Sketchpad Software,	are not linear. It also
Length (Days): ?	expressions	N-CN.3	pp. 260, 261; 25-77 eoo	as needed	note outlines, text	reintroduces and
(Still going)		N-CN.7	pp. 267, 268; 19-67 eoo		book, and related	
	5. Solve quadratic	IN-CIN./	1 pp. 207, 200, 17 07 000		DOOK, and related	extends concepts that
(3. Solve quadratic equations by factoring				handouts	extends concepts that were introduced in
(equations by factoring	N-CN.8	pp. 277, 278; 17-67 eoo			were introduced in
(equations by factoring 4. Solve quadratic	N-CN.8 N-CN.9				
(equations by factoring 4. Solve quadratic equations by finding	N-CN.8 N-CN.9 A-SSE.a	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70			were introduced in Algebra I.
(equations by factoring 4. Solve quadratic equations by finding squarer roots	N-CN.8 N-CN.9	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens			were introduced in Algebra I. With respect to the
	 equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic 	N-CN.8 N-CN.9 A-SSE.a A-SSE.b	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70			were introduced in Algebra I.
(equations by factoring 4. Solve quadratic equations by finding squarer roots	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the
	equations by factoring4. Solve quadraticequations by findingsquarer roots5. Solve quadraticequations with complexsolutions	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the complex number
	 equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic equations with complex 	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4 A-REI.7	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the
	 equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic equations with complex solutions 6. Perform operations 	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4 A-REI.7 A-APR.5	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the complex number system family are
	 equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic equations with complex solutions 6. Perform operations with complex umbers 	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4 A-REI.7 A-APR.5 MP1	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the complex number system family are addressed. The
	 equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic equations with complex solutions 6. Perform operations with complex umbers 7. Solve quadratic 	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4 A-REI.7 A-APR.5 MP1 MP2	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the complex number system family are addressed. The standards that are not
	 equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic equations with complex solutions 6. Perform operations with complex umbers 7. Solve quadratic equations by 	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4 A-REI.7 A-APR.5 MP1 MP2 MP4	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the complex number system family are addressed. The standards that are not addressed are related to the complex number
	 equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic equations with complex solutions 6. Perform operations with complex umbers 7. Solve quadratic equations by completing the square 8. Solve quadratic 	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4 A-REI.7 A-APR.5 MP1 MP2 MP4 MP5	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the complex number system family are addressed. The standards that are not addressed are related to the complex number plane. The concept of
	 equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic equations with complex solutions 6. Perform operations with complex umbers 7. Solve quadratic equations by completing the square 8. Solve quadratic equations using the 	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4 A-REI.7 A-APR.5 MP1 MP2 MP4 MP5 MP6	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the complex number system family are addressed. The standards that are not addressed are related to the complex number plane. The concept of the complex number
	 equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic equations with complex solutions 6. Perform operations with complex umbers 7. Solve quadratic equations by completing the square 8. Solve quadratic 	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4 A-REI.7 A-APR.5 MP1 MP2 MP4 MP5 MP6 MP7	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the complex number system family are addressed. The standards that are not addressed are related to the complex number plane. The concept of the complex number plane is introduced in
	 equations by factoring 4. Solve quadratic equations by finding squarer roots 5. Solve quadratic equations with complex solutions 6. Perform operations with complex umbers 7. Solve quadratic equations by completing the square 8. Solve quadratic equations using the quadratic formula 	N-CN.8 N-CN.9 A-SSE.a A-SSE.b A-APR.3 A-REI.4 A-REI.7 A-APR.5 MP1 MP2 MP4 MP5 MP6 MP7	pp. 277, 278; 17-67 eoo pp. 277, 278; 18-70 evens Summative: Chapter 5			were introduced in Algebra I. With respect to the standards, almost all of the standards in the complex number system family are addressed. The standards that are not addressed are related to the complex number plane. The concept of the complex number

Beecher Community Unit School District 200U

Developed by <u>David Mc</u>

David McCord Page Date <u>5/26/2015</u>

of the solutions to a quadratic equation			include all of the standards in this family.
10. Graph inequalities in two variables			5

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