Curriculum Map

Course Title: Algebra 2		Quarter:	Academic Year: 2015-2016

Essential Questions for this Quarter:

1.					
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
Equations and Inequalities	11.1.2.a	Real Numbers and Number Operations		Teacher made	McDougal Littell Algebra 2
	11.2.1.c	Algebraic Expressions and Models			
	11.2.1.e	Solving Linear Equations			
	11.2.1.e	Rewriting Equations and Formulas			
	11.2.3.a	Problem Solving Using Algebraic Models			
	11.2.2.g	Solving Linear Inequalities			
	11.2.2.g	Solving Absolute Value Equations and Inequalities			
Linear Equations and Functions	11.2.1.c 11.2.1.d	Functions and Their Graphs			
	11.2.1.e	Slope and Rate of Change			
	11.2.1.e	Writing equations of lines			
	11.2.1.e	Linear inequalities in two variables			
	12.2.1.a	Piecewise functions			
	11.2.1.f	Absolute value functions			

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Essential Questions for this Quarter:

1.					
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
Systems of Linear Equations and Inequalities	11.2.2.h	Solving Linear systems by graphing			
	11.2.2.h	Solving linear systems algebraically			
	11.2.2.h	Graphing and solving linear inequalities			
	11.2.3.a	Linear programming			
	11.2.2.h	Graphing linear equations in three variables			
	11.2.2.h	Solving systems of linear equations in three variables			
Matrices and Determinants	12.1.2.a	Matrix Operations			
	12.1.2.b	Multiplying Matrices			
	11.2.2.h	Determinants and Cramer's rule			
	12.1.2.b	Identity and Inverse Matrices			
	11.2.2.h	Solving systems using inverse matrices			

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Essential Questions for this Quarter:

1.					
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
Quadratic Functions	11.2.1.g	Graphing quadratic functions			
	11.2.2.n	Solving Quadratic Equations by factoring			
	11.2.2.n	Solving quadratic equations by finding the square root			
	11.1.2.a	Complex numbers			
	11.2.2.n	Completing the square			
	11.2.2.n	Quadratic formula and the discriminant			
	11.2.1.g	Graphing and solving quadratic inequalities			
	11.2.3.a	Modeling with quadratic functions			
Polynomials and Polynomial Functions	11.1.2.b	Using properties of exponents			
	11.2.3.a	Evaluating and graphing polynomial functions			
	11.2.2.i	Adding, subtracting and multiplying polynomials			
	11.2.2.j	Factoring and solving			

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Essential Questions for this Quarter:

1.					
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
		polynomial equations			
	11.2.2.l	Remainder and factor theorems			
	11.2.2.l	Finding rational zeros			
	11.2.2.l	Using the fundamental theorem of algebra			
	11.2.3.a	Analyzing graphs of polynomial functions			
	11.2.3.a	Modeling with polynomial functions			
Powers, Roots and Radicals	11.1.2.b	Nth roots and rational exponents			
	11.1.2.b	Properties of rational exponents			
	11.1.2.b	Power functions and function operations			
	11.2.1.h	Inverse functions			
	11.2.3.a	Graphing square root and cube root functions			
	11.2.2.e	Solving radical equations			
Exponential and	11.2.3.a	Exponential growth			

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Essential Questions for this Quarter:

1.					
Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
logarithmic functions					
	11.2.3.a	Exponential decay			
	11.2.3.a	The number e			
	11.2.3.a	Logarithmic functions			
	11.2.3.a	Solving exponential and logarithmic equations			
	11.2.3.a	Modeling with exponential and power functions			
	11.2.3.a	Logistic growth functions			
Rational Equations and Functions	11.2.1.d	Inverse and Joint Variation			
	11.2.1.h	Graphing Simple Rational Functions			
	11.2.1.d	Graphing General Rational Functions			
	11.1.2.b	Multiplying and dividing rational expressions			
	11.2.2.d	Add, subtract and complex fractions			
	11.2.3.a	Solving rational equations			

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Course Title: Algebra 2		Quarter:	Academic Year: 2015-2016

Essential Questions for this Quarter:

1.

Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
Quadratic Relations and conic Sections	11.3.2.a 11.3.2.d	Distance and midpoint formula			
	11.2.3.a	Parabolas			
	11.2.3.a	Circles			
	11.2.3.a	Ellipses			
	11.2.3.a	Hyperbolas			
	11.2.3.a	Graphing and classifying conics			
	11.2.3.a	Solving quadratic systems			

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Essential Questions for this Quarter:

Unit/Time Frame	Standards	Content	Skills	Assessment	Resources

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Essential Questions for this Quarter:

Unit/Time Frame	Standards	Content	Skills	Assessment	Resources