

Curriculum Map

Course Title: Algebra 1	Quarter: 1-4	Academic Year: 2015-2016
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Essential Questions for this Quarter:

1. How does this class prepare students to meet their graduation requirements

Unit/Time Frame	Standards	Content	Skills	Assessment	Resources
Unit 1 – Foundation	MA 8.1.1a, MA 8.1.1c	Lesson 1	Classifying Real Numbers		
		Lesson 2	Variables and Expressions		
	MA 11.2.2c	Lesson 3	Simplifying Expressions		
		Lesson 4	Order of Operations		
	MA 8.1.2c	Lesson 5 and 6	Absolute Value and Adding/Subtracting real numbers		
		Lesson 7	Order of Operations with Parenthesis		
	MA 11.2.2a	Lesson 8	Unit Conversions		
	MA 11.3.3c	Lesson 9	Evaluating Algebraic Expressions		
		Lesson 10	Adding And Subtracting Real Numbers	Saxon Test 2	
		Lesson 11	Multiplying and Dividing Real Numbers		
	MA 11.2.2b	Lesson 12	Properties of Real Numbers		
	MA 8.1.2a, MA 8.1.e	Lesson 13	Square Roots		
		Lesson 15	Distributive Property	Saxon Test 3	
	MA 11.2.2e	Lesson 16	Evaluating Expressions		
	MA 8.2.1a	Lesson 17	Words and Algebraic Expressions		
	MA 8.1.1b, MA 8.1.2b,	Lesson 32	Evaluating Expressions 2		

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	MA 11.2.2c				
	MA 8.1.1b, MA 8.1.2d	Lesson 37	Scientific Notation		
		Lesson 40	Evaluating Expressions 3		
		Lesson 46	Square Root Expressions		
		INV 4 and 5	Deductive, Inductive and Logical Reasoning		
Unit 2 – Equations		Lesson 18	Combining Like Terms		
		Lesson 19	One-Step Equations Add/Sub		
		Lesson 21	One-Step Equations Mult/Div		
		Lesson 23	Two-Step Equations		
		Lesson 24	Decimal Equations		
	MA 8.2.3b	Lesson 26	Multi-Step Equations		
	MA 8.2.2a	Lesson 28	Equations with Variables on Both Sides		
	MA 8.2.3a, MA 11.2.2f	Lesson 29	Literal Equations		
		Lesson 31	Rates, Ratios, and Proportions		
		Lesson 36	Writing and Solving Proportions		

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		Lesson 42	Solving Percent Problems		
		Lesson 47	Percent of Change		
Unit 3 – Inequalities	MA 8.2.1a, MA 11.2.3a	Lesson 45	Translating Words into Inequalities		
		Lesson 50	Graphing Inequalities		
		Lesson 66	Solving Inequalities by Add/Sub		
		Lesson 70	Solving Inequalities by Mult/Div		
		Lesson 73	Solving Compound Inequalities		
	MA 8.2.2b	Lesson 77	Two-Step and Multi-Step Inequalities		
		Lesson 81	Inequalities with Variables on Both Sides		
		Lesson 82	Multi-Step Compound Inequalities		
Unit 4 – Functions and Relations		Lesson 20	Graphing on a Coordinate Plane		
		INV 2	Graphing a Relationship		
	MA 11.2.1a,b,d	Lesson 25	Differentiating Between Relationships and Functions		

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		Lesson 30	Graphing Functions		
		Lesson 34	Arithmetic Sequences		
		Lesson 105	Geometric Sequences		
Unit 5 – Linear Equations	MA 11.2.1e	Lesson 35	Locating and Using Intercepts		
	MA 8.2.1b	Lesson 41	Finding Rates of Change and Slope		
	MA 8.2.1d	Lesson 44	Finding Slope Using the Slope Formula		
	MA 8.2.1d, MA 11.2.1e,f	Lesson 49	Writing Equations in Slope-Intercept Form		
	MA 11.2.1e	Lesson 52	Determining the Equation of a Line w/2 Points		
	MA 11.2.1e, MA 11.3.2b,c	Lesson 65	Parallel and Perpendicular Lines		
		Lesson 56	Direct Variation		
		INV 6	Transforming Linear Functions		
Unit 6 – Systems of Equations and Inequalities	MA 11.2.2h	Lesson 55	Solving by Graphing		

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	MA 11.2.2h	Lesson 59	Solving by Substitution		
	MA 11.2.2h	Lesson 63	Solving by Elimination		
	MA 8.2.1c	Lesson 67	Special Systems of Linear Equations		
	MA 11.2.3a	Lesson 97	Graphing Linear Inequalities		
	MA 11.2.3a	Lesson 109	Graphing Systems of Linear Inequalities		
Unit 7 – Polynomials	MA 11.2.2j	Lesson 38	Simplifying Expressions Using the GCF		
	MA 11.2.2i	Lesson 53	Adding and Subtracting Polynomials		
	MA 11.2.2i	Lesson 58	Multiplying Polynomials		
		Lesson 60	Special Products of Binomials		
	MA 11.2.2j	Lesson 72	Factoring Trinomials (leading coefficient of 1)		
	MA 11.2.2j	Lesson 75	Factoring Trinomials		
	MA 11.2.2j	Lesson 79	Factoring Trinomials Using GCF		
	MA 11.2.2j,k	Lesson 83	Factoring Special Products		
	MA 11.2.2j	Lesson 87	Factoring by Grouping		
	MA 11.2.2j	INV 9	Choosing a Factoring Method		
	MA 11.2.2i	Lesson 93	Dividing Polynomials		

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Unit 8 – Rational Expressions and Functions	MA 11.2.2c	Lesson 39	Using the Distributive Property to Simplify Rational Expressions		
	MA 11.2.2c	Lesson 43	Simplify Rational Expressions		
		Lesson 51	Simplifying with Like Denominators		
		Lesson 57	Finding Least Common Multiple		
		Lesson 78	Graphing Rational Functions		
	MA 11.2.2d	Lesson 88	Multiplying and Dividing Rational Expressions		
	MA 11.2.2d	Lesson 90	Adding and Subtracting Rational Expressions		
	MA 11.2.2d	Lesson 92	Simplifying Complex Fractions		
	MA 11.2.2d	Lesson 95	Combining Rational Expressions with Unlike Denominators		
	MA 8.2.3c	Lesson 99	Solving Rational Equations		
Unit 9 – Radical Expressions and Functions		Lesson 61	Simplifying Radical Expressions		
		Lesson 69	Adding and Subtracting Radical Expressions		

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		Lesson 76	Multiplying Radical Expressions		
		Lesson 103	Dividing Radical Expressions		
		Lesson 106	Solving Radical Equations		
		Lesson 114	Graphing Square-Root Functions		
Unit 10 – Quadratic Equations and Functions		Lesson 84	Identifying Quadratic Functions		
	MA 8.3.3a,b	Lesson 85	Pythagorean Theorem		
	MA 8.3.3c, MA 11.3.2a,d	Lesson 86	Midpoint and Length of a Segment		
	MA 11.2.1g	Lesson 89	Characteristics of Quadratic Functions		
	MA 11.2.1g	Lesson 96	Graphing Quadratic Functions		
	MA 11.2.2L	Lesson 98	**Solving Quadratic Equations by Factoring**		
Unit 11 – Probability and Data Analysis	MA 8.4.3, MA 11.4.3a,b	INV 1	Determining the Probability of an Event		
	MA 8.4.3, MA 11.4.3a,b	Lesson 14	Theoretical Probability		

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	MA 8.4.3, MA 11.4.3a,b	Lesson 33	Probability of Independent and Dependent Events		
	MA 8.4.3, MA 11.4.3b,c	Lesson 68	Mutually Exclusive and Inclusive Events	Prob. Test	
	MA 8.4.1	Lesson 22	Analyzing and Comparing Statistical Graphs		
	MA 8.4.1	Lesson 27	Identifying Misleading Representations of Data		
	MA 11.4.2g	INV 3	Bias		
	MA 11.4.2a	Lesson 48	Measures of Central Tendency		
		Lesson 62	Stem-and-Leaf Plots and Histograms		
	MA 8.4.1.a, MA 11.4.2i	Lesson 71	Making and Analyzing Scatter Plots		
	MA 8.4.2.a	LAB 7	Line of Best Fit		
		Lesson 80	Calculating Frequency Distributions		

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