



CURRICULUM MAP
ALGEBRA I

WEEK	STANDARDS/ BENCHMARKS/ OBJECTIVES	TOPIC (Lesson Make-up)	MATERIALS/ RESOURCES/ TECHNOLOGY	PROJECTS/ ACTIVITIES/ SUPPLEMENTS	ASSESSMENT
1	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> Apply properties of operations and the real number system, and justify when they hold for a set of numbers 	Expressions & Equations	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



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<p>2</p>	<p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> • Apply properties of operations and the real number system, and justify when they hold for a set of numbers • Compare, order and determine equivalent forms of real numbers 	<p>Exponents & Factors Properties Order of Operations</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>
<p>3</p>	<p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> • Apply properties of operations and the real number system, and justify when they hold for a set of numbers • Compare, 	<p>Numbers & Sets Absolute Values</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



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	order and determine equivalent forms of real numbers				
4	<p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> • Apply properties of operations and the real number system, and justify when they hold for a set of numbers • Compare, order and determine equivalent forms of real numbers • Explain the effects of operations on the magnitude of quantities • Estimate, compute and solve 	<p>Problem Solving 1</p> <p>Adding Real Numbers</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



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	<p>problems involving real numbers, including ratio, proportion and percent, and explain solutions</p>				
5	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> Explain the effects of operations on the magnitude of quantities Estimate, compute and solve problems 	<p>Subtracting Real Numbers</p> <p>Distributive Property</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



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	involving real numbers, including ratio, proportion and percent, and explain solutions				
6	<u>Number, Number Sense and Operations</u> <ul style="list-style-type: none"> Explain the effects of operations on the magnitude of quantities Estimate, compute and solve problems involving real numbers, including ratio, proportion and percent, and explain solutions 	Like Terms Multiplying Real Numbers	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
7	<u>Number, Number Sense and Operations</u> <ul style="list-style-type: none"> Explain the effects of operations on the magnitude of quantities 	Dividing Real Numbers Evaluating Expressions	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



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8	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve and graph linear equations and inequalities. Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations. 	From Words to Equations Properties of Equality 1	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
REVIEW WEEKS ONE – EIGHT (1-8) FOR QUARTERLY ASSESSMENT					



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WEEK	STANDARDS/ BENCHMARKS/ OBJECTIVES	TOPICS (Lesson Make-up)	MATERIALS/ RESOURCES/ TECHNOLOGY	PROJECTS/ ACTIVITIES/ SUPPLEMENTS	ASSESSMENT
10	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations. 	Solving Equations 1 Properties of Equality 2	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
11	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations. 	Solving Equations 2 Properties of Equality 3	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
12	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Use algebraic 	Eliminating Fractions Solving Word	AGS Study Island A+LS	Self Study Guide (TRL-CD Rom) Everyday Algebra	Teacher Resource Library OGT Review



CURRICULUM MAP
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	<p>representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations.</p>	<p>Problems</p>	<p>Teacher Resource Library(TRL-CD Rom)</p>	<p>Workbook Activity Application Activity</p>	<p>Rubric Portfolio Graphic Organizer</p>
<p>13</p>	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> • Translate information from one representation to another representation of a relation or function. • Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros. • Solve systems of linear equations involving two variables 	<p>The Coordinate Plane</p> <p>Linear Equations</p> <p>Graphing with the T-table</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



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	<p>graphically and symbolically</p> <ul style="list-style-type: none"> Describe and interpret rates of change from graphical and numerical data 				
14	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> Translate information from one representation to another representation of a relation or function. Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros. Solve systems of linear equations involving two variables graphically and symbolically 	<p>The x and y Intercepts</p> <p>Slope of a Line</p>	<p>AGS Study Island</p> <p>A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom)</p> <p>Everyday Algebra Workbook Activity</p> <p>Application Activity</p>	<p>Teacher Resource Library</p> <p>OGT Review Rubric</p> <p>Portfolio</p> <p>Graphic Organizer</p>



CURRICULUM MAP
ALGEBRA I

	<ul style="list-style-type: none"> Describe and interpret rates of change from graphical and numerical data 				
15	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> Translate information from one representation to another representation of a relation or function. Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros. Solve systems of linear equations involving two variables graphically and symbolically Describe and 	<p>Slope-Intercept Equations</p> <p>Fitting Equations to Data</p> <p>Rules of Exponents</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom)</p> <p>Everyday Algebra Workbook Activity</p> <p>Application Activity</p>	<p>Teacher Resource Library</p> <p>OGT Review Rubric</p> <p>Portfolio</p> <p>Graphic Organizer</p>



CURRICULUM MAP
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	interpret rates of change from graphical and numerical data				
16	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve and graph linear equations and inequalities. Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations. 	Polynomial Types Polynomial Operations 1 Polynomial Operations 2	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
17	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve and graph linear equations and inequalities. Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to 	Scientific Notation Polynomial Operations 3 Polynomial Operations 4	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



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	model and solve problem situations <u>Number, Number Sense and Operations</u> <ul style="list-style-type: none">• Compare, order and determine equivalent forms of real numbers				
MIDTERM EXAMINATION: REVIEW WEEKS ONE – SEVENTEEN (1 -17)					



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WEEK	STANDARDS/ BENCHMARKS/ OBJECTIVES	TOPICS (Lesson Make-up)	MATERIALS/ RESOURCES/ TECHNOLOGY	PROJECTS/ ACTIVITIES/ SUPPLEMENTS	ASSESSMENT
19	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve and graph linear equations and inequalities. Solve quadratic equations with real roots by graphing, formula and factoring. Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations. 	Equations & Polynomials Factoring Out Monomials Difference of Squares	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
20	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve quadratic equations with real roots by 	Trinomial Squares Factoring Trinomials Factoring by	AGS Study Island A+LS Teacher Resource Library(TRL-CD	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio



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	graphing, formula and factoring.	Grouping	Rom)		Graphic Organizer
21	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve quadratic equations with real roots by graphing, formula and factoring. 	Methods of Factoring Solving by Factoring Factoring Word Problems	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
22	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve systems of linear equations involving two variables graphically and symbolically 	Solving by Graphing Solving by Substitution Addition & Subtraction	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
23	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve systems of linear equations involving two variables graphically and symbolically 	Multiplication & Addition Using Two Variables Motion Problems	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
24	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> Use algebraic 	Coin & Digit Problems Rational Expressions 1	AGS Study Island A+LS	Self Study Guide (TRL-CD Rom) Everyday Algebra	Teacher Resource Library OGT Review



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	representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations	Using -1 as a Factor	Teacher Resource Library(TRL-CD Rom)	Workbook Activity Application Activity	Rubric Portfolio Graphic Organizer
25	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations 	Rational Expressions 2, 3, 4 and 5	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
26	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Use algebraic representations, such as tables, graphs, expressions, functions and 	Dividing Polynomials Complex Rationals Rational Equations 1 Rational Equations 2	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



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	inequalities, to model and solve problem situations.				
27	<u>Geometry and Spatial Sense</u> <ul style="list-style-type: none"> Use right triangle trigonometric relationships to determine lengths and angle measures 	Mixture Problems Work Problems Ratio & Proportion Investment Problems	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
28	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve and graph linear equations and inequalities. 	Graphing Inequalities Solving Inequalities Using Inequalities Problem Solving	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
REVIEW WEEKS NINETEEN – TWENTY-EIGHT (19-28) FOR QUARTERLY ASSESSMENT					



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WEEK	STANDARDS/ BENCHMARKS/ OBJECTIVES	TOPICS (Lesson Make-up)	MATERIALS/ RESOURCES/ TECHNOLOGY	PROJECTS/ ACTIVITIES/ SUPPLEMENTS	ASSESSMENT
30	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve and graph linear equations and inequalities. <u>Number, Number Sense and Operations</u> <ul style="list-style-type: none"> Apply properties of operations and the real number system, and justify when they hold for a set of numbers Compare, order and determine equivalent forms of real numbers 	Intersections & Unions Compound Inequalities Equations/Absolute Value Linear Inequalities 1	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
31	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> Solve quadratic equations with real roots by graphing, 	Linear Inequalities 2 Linear Inequalities 3 Square Root & Irrationals	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity Application Activity	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



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	<p>formula and factoring.</p> <ul style="list-style-type: none"> Identify and classify functions as linear or nonlinear, and contrast their properties using tables, graphs or equations. <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> Estimate, compute and solve problems involving scientific notation, square roots and numbers with integer exponents 	<p>Radical Expressions 1</p>			
32	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> Identify and classify functions as linear or nonlinear, and contrast their properties using tables, graphs or equations. 	<p>Radical Expressions 2</p> <p>Radical Expressions 3</p> <p>Radical Expressions 4</p> <p>The Pythagorean Theorem 1</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom)</p> <p>Everyday Algebra Workbook Activity</p> <p>Application Activity</p>	<p>Teacher Resource Library</p> <p>OGT Review Rubric</p> <p>Portfolio</p> <p>Graphic Organizer</p>



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	<p><u>Geometry and Spatial Sense</u></p> <ul style="list-style-type: none"> Use right triangle trigonometric relationships to determine lengths and angle measures <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> Estimate, compute and solve problems involving scientific notation, square roots and numbers with integer exponents 				
33	<p><u>Patterns, Function, and Algebra</u></p> <ul style="list-style-type: none"> Identify and classify functions as linear or nonlinear, and contrast their properties using tables, graphs or equations. Translate information from 	<p>The Distance Formula</p> <p>The Pythagorean Theorem 2</p> <p>Radical Equations</p> <p>Relations & Functions</p> <p>Function Graphs</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom)</p> <p>Everyday Algebra Workbook Activity</p> <p>Application Activity</p>	<p>Teacher Resource Library</p> <p>OGT Review Rubric</p> <p>Portfolio</p> <p>Graphic Organizer</p>



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	<p>one representation to another representation of a relation or function.</p> <ul style="list-style-type: none">• Solve quadratic equations with real roots by graphing, formula and factoring.• Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations <p><u>Geometry and Spatial Sense</u></p> <ul style="list-style-type: none">• Use right triangle trigonometric relationships to determine lengths and angle				
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CURRICULUM MAP
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	<p>measures <u>Measurement</u></p> <ul style="list-style-type: none"> • Write and solve real-world multi-step problems involving money, elapsed time and temperature, and verify reasonableness of solutions • Use proportional reasoning and apply indirect measurement techniques, including right triangle trigonometry and properties of similar triangles, to solve problems involving measurement and rates 				
34	<p><u>Patterns, Function, and Algebra</u></p> <ul style="list-style-type: none"> • Solve quadratic equations with 	<p>Quadratic Functions Direct Variation</p>	<p>AGS Study Island A+LS Teacher Resource</p>	<p>Self Study Guide (TRL-CD Rom) Everyday Algebra Workbook Activity</p>	<p>Teacher Resource Library OGT Review Rubric</p>



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	<p>real roots by graphing, formula and factoring.</p> <ul style="list-style-type: none"> • Model and solve problems involving direct and inverse variation • Identify and classify functions as linear or nonlinear, and contrast their properties using tables, graphs or equations. 	<p>Inverse Variation</p> <p>Variations</p> <p>Quadratic Equations</p>	<p>Library(TRL-CD Rom)</p>	<p>Application Activity</p>	<p>Portfolio</p> <p>Graphic Organizer</p>
35	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> • Solve quadratic equations with real roots by graphing, formula and factoring. • Identify and classify functions as linear or nonlinear, and contrast their properties using 	<p>Completing the Square</p> <p>The Quadratic Formula 1</p> <p>The Discriminant</p> <p>The Quadratic Formula 2</p>	<p>AGS</p> <p>Study Island</p> <p>A+LS</p> <p>Teacher Resource</p> <p>Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom)</p> <p>Everyday Algebra</p> <p>Workbook Activity</p> <p>Application Activity</p>	<p>Teacher Resource</p> <p>Library</p> <p>OGT Review</p> <p>Rubric</p> <p>Portfolio</p> <p>Graphic Organizer</p>



VIRTUAL SCHOOLHOUSE

CURRICULUM MAP
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	tables, graphs or equations.				
REVIEW FOR FINAL EXAMINATION					



VIRTUAL SCHOOLHOUSE

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