



**CURRICULUM MAP**  
**ALGEBRA II**

WEEK	STANDARDS/ BENCHMARKS/ OBJECTIVES	TOPIC (Lesson Make-up)	MATERIALS/ RESOURCES/ TECHNOLOGY	PROJECTS/ ACTIVITIES/ SUPPLEMENTS	ASSESSMENT
1	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Use symbolic algebra to represent and explain mathematical relationships</li> </ul>	Rules of Algebra  Real Number Properties  Algebraic Expressions	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
2	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Solve and graph linear equations and inequalities</li> </ul>	Algebraic Equations  Solving Equations  Problem Solving I	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
3	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> <li>Use algebraic representations, such as tables, graphs, expressions,</li> </ul>	Rewriting Formulas  Solving and Graphing  Properties of Inequality	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



**CURRICULUM MAP**  
**ALGEBRA II**

	<p>functions and inequalities, to model and solve problem situations</p> <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> <li>Apply number system properties when performing computations</li> </ul>				
4	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>Solve and graph linear equations and inequalities</li> </ul>	<p>Inequalities</p> <p>Absolute Value Equations</p> <p>Absolute Value Inequality</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom)</p> <p>Workbook Activity</p> <p>Application Activity</p> <p>Community Connection</p>	<p>Teacher Resource Library</p> <p>OGT Review Rubric</p> <p>Portfolio</p> <p>Graphic Organizer</p>
5	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>Solve and graph linear equations and inequalities</li> <li>Identify and classify functions as linear or nonlinear, and contrast their</li> </ul>	<p>Problem Solving II</p> <p>Relations and Functions</p> <p>Graph Linear Functions</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom)</p> <p>Workbook Activity</p> <p>Application Activity</p> <p>Community Connection</p>	<p>Teacher Resource Library</p> <p>OGT Review Rubric</p> <p>Portfolio</p> <p>Graphic Organizer</p>



**CURRICULUM MAP**  
**ALGEBRA II**

	properties using tables, graphs or equations				
6	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Solve and graph linear equations and inequalities</li> <li>Describe and interpret rates of change from graphical and numerical data</li> </ul>	Slope of a Line  Graph Linear Inequalities  Parallel & Perpendicular	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
7	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Model and solve problems involving direct and inverse variation</li> </ul>	Identify Linear Equations  Problem Solving III  Direct Variation	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
8	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Solve systems of linear equations involving two variables graphically and symbolically</li> <li>Describe and interpret rates of</li> </ul>	Graphing Equation Systems  Graphing Systems  Addition & Substitution	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



VIRTUAL SCHOOLHOUSE

**CURRICULUM MAP**  
**ALGEBRA II**

	change from graphical and numerical data <ul style="list-style-type: none"><li>• Solve and graph linear equations and inequalities</li></ul>				
<b>REVIEW WEEKS ONE – EIGHT (1-8) FOR QUARTERLY ASSESSMENT</b>					



**CURRICULUM MAP**  
**ALGEBRA II**

WEEK	STANDARDS/ BENCHMARKS/ OBJECTIVES	TOPICS (Lesson Make-up)	MATERIALS/ RESOURCES/ TECHNOLOGY	PROJECTS/ ACTIVITIES/ SUPPLEMENTS	ASSESSMENT
10	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Solve systems of linear equations involving two variables graphically and symbolically</li> <li>Describe and interpret rates of change from graphical and numerical data</li> <li>Solve and graph linear equations and inequalities</li> </ul>	Solving Inequalities  Linear Programming	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
11	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Solve systems of linear equations involving two variables graphically and symbolically</li> </ul> <u>Number, Number Sense and Operations</u>	Three-Variable Equations  Data in Matrices	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



**CURRICULUM MAP**  
**ALGEBRA II**

	<ul style="list-style-type: none"> <li>Apply properties of operations and the real number system, and justify when they hold for a set of numbers</li> <li>Demonstrate fluency in operations with real numbers, vectors and matrices, using mental computation or paper and pencil calculations for simple cases and technology for more complicated ones</li> </ul>				
12	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>Solve systems of linear equations involving two variables graphically and symbolically</li> </ul> <p><u>Number, Number Sense and Operations</u></p>	<p>Matrix Multiplication</p> <p>Size &amp; Reflections</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



**CURRICULUM MAP**  
**ALGEBRA II**

	<ul style="list-style-type: none"> <li>Apply properties of operations and the real number system, and justify when they hold for a set of numbers</li> <li>Demonstrate fluency in operations with real numbers, vectors and matrices, using mental computation or paper and pencil calculations for simple cases and technology for more complicated ones</li> </ul>				
13	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>Solve systems of linear equations involving two variables graphically and symbolically</li> </ul> <p><u>Number, Number Sense and Operations</u></p>	<p>Transformation</p> <p>Rotation</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



**CURRICULUM MAP**  
**ALGEBRA II**

	<ul style="list-style-type: none"> <li>Apply properties of operations and the real number system, and justify when they hold for a set of numbers</li> <li>Demonstrate fluency in operations with real numbers, vectors and matrices, using mental computation or paper and pencil calculations for simple cases and technology for more complicated ones</li> </ul>				
14	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>Solve systems of linear equations involving two variables graphically and symbolically</li> </ul> <p><u>Number, Number Sense and Operations</u></p>	<p>Matrix Addition</p> <p>Exponents</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



**CURRICULUM MAP**  
**ALGEBRA II**

	<ul style="list-style-type: none"> <li>Apply properties of operations and the real number system, and justify when they hold for a set of numbers</li> <li>Demonstrate fluency in operations with real numbers, vectors and matrices, using mental computation or paper and pencil calculations for simple cases and technology for more complicated ones</li> </ul>				
15	<u>Patterns, Function and Algebra</u> <ul style="list-style-type: none"> <li>Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros</li> </ul>	Polynomial Types  Polynomial Operations  Factoring Quadratics	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



**CURRICULUM MAP**  
**ALGEBRA II**

16	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> <li>Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros</li> </ul> <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> <li>Estimate, compute and solve problems involving scientific notation, square roots and numbers with integer exponents</li> </ul>	<p>Polynomial Equations</p> <p>Negative Exponents</p> <p>Scientific Notation</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>
17	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> <li>Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and</li> </ul>	<p>Rational Operations I &amp; II</p> <p>Simplifying Rationals</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



VIRTUAL SCHOOLHOUSE

**CURRICULUM MAP**  
**ALGEBRA II**

	zeros				
<b>MIDTERM EXAMINATION: REVIEW WEEKS ONE – SEVENTEEN (1 -17)</b>					



**CURRICULUM MAP**  
**ALGEBRA II**

WEEK	STANDARDS/ BENCHMARKS/ OBJECTIVES	TOPICS (Lesson Make-up)	MATERIALS/ RESOURCES/ TECHNOLOGY	PROJECTS/ ACTIVITIES/ SUPPLEMENTS	ASSESSMENT
19	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> <li>• Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations.</li> <li>• Solve and graph linear equations and inequalities</li> <li>• Analyze and compare functions and their graphs using attributes, such as rates of change,</li> </ul>	<p>Complex Rationals</p> <p>Roots and Radicals</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



**CURRICULUM MAP**  
**ALGEBRA II**

	<p>intercepts and zeros</p> <ul style="list-style-type: none"> <li>• Solve quadratic equations with real roots by graphing, formula and factoring</li> </ul>				
20	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> <li>• Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations.</li> <li>• Solve and graph linear equations and inequalities</li> <li>• Solve quadratic equations with real roots by graphing, formula and</li> </ul>	<p>Real Number Properties I &amp; II</p> <p>Rational Exponents</p>	<p>AGS Study Island A+LS</p> <p>Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom)</p> <p>Workbook Activity</p> <p>Application Activity</p> <p>Community Connection</p>	<p>Teacher Resource Library</p> <p>OGT Review</p> <p>Rubric</p> <p>Portfolio</p> <p>Graphic Organizer</p>



**CURRICULUM MAP**  
**ALGEBRA II**

	<ul style="list-style-type: none"> <li>factoring</li> </ul>				
21	<p><u>Patterns, Function and Algebra</u></p> <ul style="list-style-type: none"> <li>Use algebraic representations, such as tables, graphs, expressions, functions and inequalities, to model and solve problem situations.</li> <li>Solve and graph linear equations and inequalities</li> <li>Solve quadratic equations with real roots by graphing, formula and factoring</li> </ul> <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> <li>Represent and compute with complex numbers</li> </ul>	<p>Equations</p> <p>Imaginary Numbers</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



**CURRICULUM MAP**  
**ALGEBRA II**

	<ul style="list-style-type: none"> <li>Demonstrate fluency in operations with real numbers, vectors and matrices, using mental computation or paper and pencil calculations for simple cases and technology for more complicated ones</li> </ul>				
22	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>Solve quadratic equations with real roots by graphing, formula and factoring</li> </ul> <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> <li>Represent and compute with complex numbers</li> </ul>	Complex Numbers I & II	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



**CURRICULUM MAP**  
**ALGEBRA II**

	<ul style="list-style-type: none"> <li>Demonstrate fluency in operations with real numbers, vectors and matrices, using mental computation or paper and pencil calculations for simple cases and technology for more complicated ones</li> </ul>				
23	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>Solve and graph linear equations and inequalities</li> <li>Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros</li> </ul>	Quadratic Equations I & II	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



**CURRICULUM MAP**  
**ALGEBRA II**

<p>24</p>	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>• Solve and graph linear equations and inequalities</li> <li>• Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros</li> </ul>	<p>The Discriminant</p> <p>Roots</p> <p>Quadratic Equations III</p> <p>Problem Solving</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>
<p>25</p>	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>• Solve systems of linear equations involving two variables graphically and symbolically</li> <li>• Solve and graph linear equations and inequalities</li> <li>• Analyze and compare functions and their graphs using attributes, such as rates of change,</li> </ul>	<p>Quadratic Relations</p> <p>Parabolas</p> <p>Graphing Parabola</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>



**CURRICULUM MAP**  
**ALGEBRA II**

	intercepts and zeros				
26	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Solve systems of linear equations involving two variables graphically and symbolically</li> <li>Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros</li> </ul>	Circles Ellipses Hyperbola	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
27	<u>Patters, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Graph linear equations and inequalities</li> </ul>	Graphing Relations Graphing Inequalities	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
28	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Solve systems of linear equations involving two variables</li> </ul>	Variations Exponential Functions	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer



**CURRICULUM MAP**  
**ALGEBRA II**

	<p>graphically and symbolically</p> <ul style="list-style-type: none"><li>• Solve and graph linear equations and inequalities</li><li>• Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros</li></ul> <p><u>Number, Number Sense and Operations</u></p> <p>Estimate, compute and solve problems involving scientific notation, square roots and numbers with integer exponents</p>				
<b>REVIEW WEEKS NINETEEN – TWENTY-EIGHT (19-28) FOR QUARTERLY ASSESSMENT</b>					



**CURRICULUM MAP**  
**ALGEBRA II**

WEEK	STANDARDS/ BENCHMARKS/ OBJECTIVES	TOPICS (Lesson Make-up)	MATERIALS/ RESOURCES/ TECHNOLOGY	PROJECTS/ ACTIVITIES/ SUPPLEMENTS	ASSESSMENT
30	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>Solve and graph linear equations and inequalities</li> <li>Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros</li> </ul> <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> <li>Estimate, compute and solve problems involving scientific notation, square roots and numbers with integer exponents</li> </ul>	<p>Inverse Functions</p> <p>Logarithmic Functions</p>	<p>AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection</p>	<p>Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer</p>
31	<p><u>Patterns, Functions and Algebra</u></p> <ul style="list-style-type: none"> <li>Solve and graph</li> </ul>	<p>Exponential Equations</p>	<p>AGS Study Island A+LS</p>	<p>Self Study Guide (TRL-CD Rom) Workbook Activity</p>	<p>Teacher Resource Library OGT Review</p>



**CURRICULUM MAP**  
**ALGEBRA II**

	<p>linear equations and inequalities</p> <ul style="list-style-type: none"> <li>Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros</li> <li>Analyze functions by investigating rates of change, intercepts, zeros, asymptotes, and local and global behavior</li> </ul> <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"> <li>Estimate, compute and solve problems involving scientific notation, square roots and numbers with integer exponents</li> </ul>	Arithmetic Sequence	Teacher Resource Library(TRL-CD Rom)	Application Activity Community Connection	Rubric Portfolio Graphic Organizer
	<p><u>Patterns, Functions and Algebra</u></p>	Arithmetic Series	AGS Study Island	Self Study Guide (TRL-CD Rom)	Teacher Resource Library



**CURRICULUM MAP**  
**ALGEBRA II**

32	<ul style="list-style-type: none"> <li>Analyze functions by investigating rates of change, intercepts, zeros, asymptotes, and local and global behavior</li> </ul>	Geometric Sequence	A+LS Teacher Resource Library(TRL-CD Rom)	Workbook Activity Application Activity Community Connection	OGT Review Rubric Portfolio Graphic Organizer
33	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Analyze functions by investigating rates of change, intercepts, zeros, asymptotes, and local and global behavior</li> </ul>	Geometric Series	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
34	<u>Patterns, Functions and Algebra</u> <ul style="list-style-type: none"> <li>Analyze functions by investigating rates of change, intercepts, zeros, asymptotes, and local and global behavior</li> </ul>	Infinite Geometric Series	AGS Study Island A+LS Teacher Resource Library(TRL-CD Rom)	Self Study Guide (TRL-CD Rom) Workbook Activity Application Activity Community Connection	Teacher Resource Library OGT Review Rubric Portfolio Graphic Organizer
35	<u>Patterns, Functions and Algebra</u>	Binomial Theorem	AGS Study Island A+LS	Self Study Guide (TRL-CD Rom) Workbook Activity	Teacher Resource Library OGT Review



**CURRICULUM MAP**  
**ALGEBRA II**

	<ul style="list-style-type: none"><li>• Solve and graph linear equations and inequalities</li><li>• Analyze and compare functions and their graphs using attributes, such as rates of change, intercepts and zeros</li></ul> <p><u>Number, Number Sense and Operations</u></p> <ul style="list-style-type: none"><li>• Estimate, compute and solve problems involving scientific notation, square roots and numbers with integer exponents</li></ul>		Teacher Resource Library(TRL-CD Rom)	Application Activity Community Connection	Rubric Portfolio Graphic Organizer
<b>REVIEW FOR FINAL EXAMINATION</b>					



VIRTUAL SCHOOLHOUSE

**CURRICULUM MAP**  
**ALGEBRA II**



VIRTUAL SCHOOLHOUSE

**CURRICULUM MAP**  
**ALGEBRA II**