

**Lawrence Public Schools**  
**Mathematics Curriculum Map, 2014-2015**  
**Algebra 1**

**Chapter 1: Arithmetic to Algebra**

Suggested Timeframe: 20 days

Standards	Concepts	Learning Outcomes	Assessment	Resources
<p><b>N-RN 3</b> Use properties of rational and irrational numbers</p> <p><b>N-Q 3, MA 3 a</b> Reason quantitatively and use units to solve problems.</p> <p>Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.</p> <p>Describe the effects of approximate error in measurement and rounding on measurements and on computed values from measurements. Identify significant figures in recorded measures.</p> <p><b>MP-7</b> Look for and make use of structure (seeking patterns)  <b>MP-8</b> Look for and express regularity in repeated reasoning (Extension)</p>	<p><b>Arithmetic to Algebra</b></p> <ul style="list-style-type: none"> <li>• Arithmetic with Algebra</li> <li>• Basic Rules of Arithmetic</li> <li>• Integer operations</li> <li>• Arithmetic with rational numbers</li> </ul> <p>Unit vocabulary and notation:  CME p. 3</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Perform integer addition and multiplication</li> <li>• Explain the rules for multiplying and adding negative integers</li> <li>• Apply the basic rules of arithmetic to whole numbers</li> <li>• Extend the basic rules of addition and multiplication from the integers to the real numbers.</li> <li>• Choose an appropriate level of accuracy</li> <li>• Describe the effects of approximate error in measurement</li> <li>• Describe the effects of rounding on measurements</li> <li>• Identify significant figures in recorded measures</li> </ul>	<p>Summative assessments:</p> <ul style="list-style-type: none"> <li>• Chapter Assessment</li> <li>• Common Mid-year &amp; Final Exams</li> <li>• Regular (weekly) assessments/quizzes</li> <li>• Performance tasks (semester/quarter)</li> </ul> <p>Formative assessments:</p> <ul style="list-style-type: none"> <li>• Do Now</li> <li>• Presentation of student work</li> <li>• Student notebooks</li> <li>• Facilitated student discourse</li> <li>• Questioning (T&gt;S, S&gt;S) of randomly called students</li> <li>• Open Response questions, writing prompts</li> <li>• Probing for multiple representations</li> <li>• Peer assessment</li> <li>• Student-developed problems and solutions</li> <li>• Exit ticket/poll question</li> </ul>	<p>CME Algebra 1 Text</p> <p>LHS Math Website (includes resources for planning, instruction and assessment):  <a href="https://sites.google.com/site/lawrencehsmath/">https://sites.google.com/site/lawrencehsmath/</a></p> <p>CME Project website:  <a href="http://cmeproject.edc.org">http://cmeproject.edc.org</a></p> <p>Pearson Online text and resources:  <a href="http://www.pearsonsuccessnet.com">www.pearsonsuccessnet.com</a></p> <p>Common Core Standards of Mathematical Practice</p> <p>Illustrative Mathematics Project</p> <p>Common Core Standards of Mathematical Practice</p> <p>Problem solving strategy: <i>Noticing and Wondering</i></p> <p>For intervention and remediation:  Khan Academy videos and assessments</p>

**Lawrence Public Schools**  
**Mathematics Curriculum Map, 2014-2015**  
**Algebra 1**

**Chapter 2: Expressions and Equations**

Suggested Timeframe: 23 days

Standards	Concepts	Learning Outcomes	Assessment	Resources
<p><b>N-Q 1 -2</b> Reason quantitatively and use units to solve problems</p> <p><b>A-SSE 1a, b</b> Seeing Structure in Expressions Interpret expressions Use the structure of an expression to identify ways to rewrite it.</p> <p><b>A-CED 1, 4</b> Create equations, rearrange formulas</p> <p><b>A-REI 1,3,5,6</b> Understand solving equations as a process of reasoning and explain the reasoning. Solve equations and inequalities. Solve systems of equations</p> <p><b>MP-8</b> Look for and express regularity in repeated reasoning (Experiment, Point-Testing, Encapsulation)</p>	<p><b>Expressions and Equations</b></p> <ul style="list-style-type: none"> <li>• Evaluate, simplify expressions</li> <li>• Solving linear equations</li> <li>• Solve real life problems of linear equations.</li> </ul> <p>Unit vocabulary and notation: CME p. 89</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Determine the appropriate order for evaluating a numerical expression and explain why the order works.</li> <li>• Express word problems using variables and mathematical notations.</li> <li>• Write formulas using two or more variables.</li> <li>• Choose, use and interpret units consistently in formulas.</li> <li>• Evaluate and simplify expressions using the basic rules.</li> <li>• Solve equations using the basic moves.</li> <li>• Understand that equations can have one, multiple, or no solutions.</li> <li>• Solve an equation involving many variations of the Distributive Property</li> <li>• Solve two-variable equations</li> <li>• Build an equation from a mathematical situation</li> </ul>	<p>Summative assessments:</p> <ul style="list-style-type: none"> <li>• Chapter Assessment</li> <li>• Common Mid-year &amp; Final Exams</li> <li>• Regular (weekly) assessments/quizzes</li> <li>• Performance tasks (semester/quarter)</li> </ul> <p>Formative assessments:</p> <ul style="list-style-type: none"> <li>• Do Now</li> <li>• Presentation of student work</li> <li>• Student notebooks</li> <li>• Facilitated student discourse</li> <li>• Questioning (T&gt;S, S&gt;S) of randomly called students</li> <li>• Open Response questions, writing prompts</li> <li>• Probing for multiple representations</li> <li>• Peer assessment</li> <li>• Student-developed problems and solutions</li> <li>• Exit ticket/poll question</li> </ul>	<p>CME Algebra 1 Text</p> <p>LHS Math Website (includes resources for planning, instruction and assessment):  <a href="https://sites.google.com/site/lawrencehsmath/">https://sites.google.com/site/lawrencehsmath/</a></p> <p>CME Project website:  <a href="http://cmeproject.edc.org">http://cmeproject.edc.org</a></p> <p>Pearson Online text and resources:  <a href="http://www.pearsonsuccessnet.com">www.pearsonsuccessnet.com</a></p> <p>Common Core Standards of Mathematical Practice</p> <p>Illustrative Mathematics Project</p> <p>Common Core Standards of Mathematical Practice</p> <p>Problem solving strategy: <i>Noticing and Wondering</i></p> <p>For intervention and remediation:            Khan Academy videos and assessments</p>

**Lawrence Public Schools**  
**Mathematics Curriculum Map, 2014-2015**  
**Algebra 1**

**Chapter 3: Graphs**

Suggested Timeframe: 23 days

Standards	Concepts	Learning Outcomes	Assessment	Resources
<p><b>A-CED 2,3</b> Create equations in two or more variables to represent relationships between quantities; graph equations.</p> <p><b>A-REI 6,10-12</b> Solve systems of equations exactly and approximately Represent and solve equations and inequalities graphically</p> <p><b>F-IF 4,5</b> Interpret functions that arise in applications in terms of the context.</p> <p><b>S-ID 1-5</b> Summarize, represent and interpret data on a single count or measurement variable or on two categorical and quantitative variables</p> <p><b>MP-3</b> Construct viable arguments and critique the reasoning of others (Different forms for different purposes)  <b>MP-7</b> Look for and make use of structure (Try it with numbers)</p>	<p><b>Graphs</b></p> <ul style="list-style-type: none"> <li>• Coordinates, Cartesian plane</li> <li>• Direct and indirect variation.</li> <li>• Statistical Data (frequency tables, histograms, box-and-whisker plot, scatter plots)</li> <li>• Connect equations and their graphs</li> <li>• Basic graphs and translations.</li> </ul> <p>Unit vocabulary and notation: CME p. 187</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Plot points and read coordinates on a graph.</li> <li>• Describe how transformations operate on ordered pairs.</li> <li>• Use absolute value and relate it to distance.</li> <li>• Connect graphs to sets of data</li> <li>• Determine the mean, median, and mode for a set of data and decide how meaningful they are in specific situations</li> <li>• Build histograms, box-and-whisker plots, and scatter plots</li> <li>• Test a point to determine whether it is on the graph of an equation</li> <li>• Graph equations by plotting points</li> <li>• Write equation of a vertical or horizontal line give its graph or.</li> <li>• Read graph to identify points that are solutions to an equation</li> <li>• Find the intersection point of two graphs and understand its meaning</li> <li>•</li> </ul>	<p>Summative assessments:</p> <ul style="list-style-type: none"> <li>• Chapter Assessment</li> <li>• Common Mid-year &amp; Final Exams</li> <li>• Regular (weekly) assessments/quizzes</li> <li>• Performance tasks (semester/quarter)</li> </ul> <p>Formative assessments:</p> <ul style="list-style-type: none"> <li>• Do Now</li> <li>• Presentation of student work</li> <li>• Student notebooks</li> <li>• Facilitated student discourse</li> <li>• Questioning (T&gt;S, S&gt;S) of randomly called students</li> <li>• Open Response questions, writing prompts</li> <li>• Probing for multiple representations</li> <li>• Peer assessment</li> <li>• Student-developed problems and solutions</li> <li>• Exit ticket/poll question</li> </ul>	<p>CME Algebra 1 Text</p> <p>LHS Math Website (includes resources for planning, instruction and assessment):  <a href="https://sites.google.com/site/lawrencehsmath/">https://sites.google.com/site/lawrencehsmath/</a></p> <p>CME Project website:  <a href="http://cmeproject.edc.org">http://cmeproject.edc.org</a></p> <p>Pearson Online text and resources:  <a href="http://www.pearsonsuccessnet.com">www.pearsonsuccessnet.com</a></p> <p>Common Core Standards of Mathematical Practice</p> <p>Illustrative Mathematics Project</p> <p>Common Core Standards of Mathematical Practice</p> <p>Problem solving strategy: <i>Noticing and Wondering</i></p> <p>For intervention and remediation:            Khan Academy videos and assessments</p>

**Lawrence Public Schools**  
**Mathematics Curriculum Map, 2014-2015**  
**Algebra 1**

**Chapter 4: Lines**

Suggested Timeframe: 21 days

Standards	Concepts	Learning Outcomes	Assessment	Resources
<p><b>A-CED 2,3</b>            Create equations in two or more variables to represent relationships between quantities; graph equations</p> <p><b>A-REI 6</b> Solve systems of equations exactly and approximately</p> <p><b>F-IF 5,6,7a,7b,7e, MA 10</b>            Interpret and analyze functions</p> <p><b>F-BF 1a,1b,3,4a</b>            Build a function that models a relationship between two quantities. Build new functions from existing functions.</p> <p><b>S-ID 6a,6b,6c, 7-9</b>            Represent data on a scatter plot. Fit a function to the data. Informally assess the fit of a function            Fit a linear function for a scatter plot that suggests a linear association.            Interpret linear models</p> <p><b>MP-7</b> Look for and make use of structure (Point-Testing, Encapsulation)</p>	<p><b>Lines</b></p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Linear Equations and Graphs</li> <li>• Intersections</li> <li>• System of linear equations and inequalities</li> <li>• Applications of lines</li> <li>• Line of best fit</li> </ul> <p>Unit vocabulary and notation:            CME p. 307</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Calculate the slope between two points.</li> <li>• Calculate the average speed between two points on a distance-time graph.</li> <li>• Find other points on a line when given a slope and a point.</li> <li>• Solve systems of linear equations with two variables using substitution and elimination</li> <li>• Determine whether two lines are parallel or intersecting using the slope of each line.</li> <li>• Write and solve word problems for systems of equations</li> <li>• Solve inequalities algebraically and by using graphs.</li> <li>• Graph the solution set of an inequality</li> <li>• Find the balance point of a data set and estimate the line of best fit</li> </ul>	<p>Summative assessments:</p> <ul style="list-style-type: none"> <li>• Chapter Assessment</li> <li>• Common Mid-year &amp; Final Exams</li> <li>• Regular (weekly) assessments/quizzes</li> <li>• Performance tasks (semester/quarter)</li> </ul> <p>Formative assessments:</p> <ul style="list-style-type: none"> <li>• Do Now</li> <li>• Presentation of student work</li> <li>• Student notebooks</li> <li>• Facilitated student discourse</li> <li>• Questioning (T&gt;S, S&gt;S) of randomly called students</li> <li>• Open Response questions, writing prompts</li> <li>• Probing for multiple representations</li> <li>• Peer assessment</li> <li>• Student-developed problems and solutions</li> <li>• Exit ticket/poll question</li> </ul>	<p>CME Algebra 1 Text</p> <p>LHS Math Website (includes resources for planning, instruction and assessment):  <a href="https://sites.google.com/site/lawrencehsmath/">https://sites.google.com/site/lawrencehsmath/</a></p> <p>CME Project website:  <a href="http://cmeproject.edc.org">http://cmeproject.edc.org</a></p> <p>Pearson Online text and resources:  <a href="http://www.pearsonsuccessnet.com">www.pearsonsuccessnet.com</a></p> <p>Common Core Standards of Mathematical Practice</p> <p>Illustrative Mathematics Project</p> <p>Common Core Standards of Mathematical Practice</p> <p>Problem solving strategy: <i>Noticing and Wondering</i></p> <p>For intervention and remediation:            Khan Academy videos and assessments</p>

**Lawrence Public Schools**  
**Mathematics Curriculum Map, 2014-2015**  
**Algebra 1**

**Chapter 5: Functions**

Suggested Timeframe: 17 days

Standards	Concepts	Learning Outcomes	Assessment	Resources
<p><b>F-IF 1-10</b> Interpreting functions.</p> <p>Understand the concept of a function and use function notation.</p> <p>Interpret functions that arise in applications in terms of the context.</p> <p>Analyze functions using different representations.</p> <p><b>MP-5</b> Use appropriate tools strategically</p>	<p><b>Function</b></p> <ul style="list-style-type: none"> <li>• Functions, graphs, and tables</li> <li>• Inputs and outputs (domain and range)</li> <li>• Recursive Rules</li> <li>• Composition of functions.</li> <li>• Functions and situations</li> <li>• Linear, exponential, floor, and periodic functions</li> </ul> <p>Unit vocabulary and notation: CME p. 409</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Build a function from a word problem</li> <li>• Determine whether a relationship is a function based on its description or graph</li> <li>• Make input-output tables</li> <li>• Find the domain of a function</li> <li>• Graph a function</li> <li>• Determine whether a table represents a linear function</li> <li>• Fit a linear function to a table where possible</li> <li>• Calculate the outputs of a recursive rule</li> <li>• Describe a recursive rule</li> <li>• Find a recursive rule to match a table.</li> <li>• Translate a word problem into an equation</li> <li>• Build and understand a function-machine network</li> <li>• Find a recursive function that models a word problem</li> <li>• Write a rule for a recursive function</li> </ul>	<p>Summative assessments:</p> <ul style="list-style-type: none"> <li>• Chapter Assessment</li> <li>• Common Mid-year &amp; Final Exams</li> <li>• Regular (weekly) assessments/quizzes</li> <li>• Performance tasks (semester/quarter)</li> </ul> <p>Formative assessments:</p> <ul style="list-style-type: none"> <li>• Do Now</li> <li>• Presentation of student work</li> <li>• Student notebooks</li> <li>• Facilitated student discourse</li> <li>• Questioning (T&gt;S, S&gt;S) of randomly called students</li> <li>• Open Response questions, writing prompts</li> <li>• Probing for multiple representations</li> <li>• Peer assessment</li> <li>• Student-developed problems and solutions</li> <li>• Exit ticket/poll question</li> </ul>	<p>CME Algebra 1 Text</p> <p>LHS Math Website (includes resources for planning, instruction and assessment):  <a href="https://sites.google.com/site/lawrencehsmath/">https://sites.google.com/site/lawrencehsmath/</a></p> <p>CME Project website:  <a href="http://cmeproject.edc.org">http://cmeproject.edc.org</a></p> <p>Pearson Online text and resources:  <a href="http://www.pearsonsuccessnet.com">www.pearsonsuccessnet.com</a></p> <p>Common Core Standards of Mathematical Practice</p> <p>Illustrative Mathematics Project</p> <p>Common Core Standards of Mathematical Practice</p> <p>Problem solving strategy: <i>Noticing and Wondering</i></p> <p>For intervention and remediation:            Khan Academy videos and assessments</p>

**Lawrence Public Schools**  
**Mathematics Curriculum Map, 2014-2015**  
**Algebra 1**

**Chapter 6: Exponents and Radicals**

Suggested Timeframe: 20 days

Standards	Concepts	Learning Outcomes	Assessment	Resources
<p><b>N-RN 1, 2</b> Extend the properties of exponents to rational exponents.</p> <p><b>F-LE 1a, 1b, 1c, 2, 3, 5</b> Construct and compare linear, quadratic, and exponential models and solve problems.</p> <p>Interpret expressions for functions in terms of the situation they model.</p> <p><b>F-BF 2</b> Write arithmetic and geometric sequences both recursively and with an explicit formula 50 Build new functions from existing functions. , use them to model situations, and translate between the two forms</p> <p><b>MP-7</b> Look for and make use of structure (Duck Principle)  <b>MP-8</b> Look for and express regularity in repeated reasoning (Extension)</p>	<p><b>Exponents and Radicals</b></p> <ul style="list-style-type: none"> <li>• Exponents</li> <li>• Radicals</li> <li>• Exponential expressions and functions</li> <li>• Exponential decay/growth</li> <li>• Annual percentage</li> <li>• Compound interests</li> </ul> <p>Unit vocabulary and notation: CME p. 501</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Make calculation/ simplify expression involving with integral exponents</li> <li>• Explain and apply the basic rules of exponents</li> <li>• Calculate with positive, zero and negative exponents.</li> <li>• Distinguish between rational and irrational numbers</li> <li>• Calculate using square roots, cube roots, and other radicals.</li> <li>• Express irrational expressions in simplified form</li> <li>• Use exponential functions to calculate compound interest</li> <li>• Graph exponential functions</li> <li>• Recognize important properties of exponential graphs</li> <li>• Match tables with constant ratios to exponential functions</li> </ul>	<p>Summative assessments:</p> <ul style="list-style-type: none"> <li>• Chapter Assessment</li> <li>• Common Mid-year &amp; Final Exams</li> <li>• Regular (weekly) assessments/quizzes</li> <li>• Performance tasks (semester/quarter)</li> </ul> <p>Formative assessments:</p> <ul style="list-style-type: none"> <li>• Do Now</li> <li>• Presentation of student work</li> <li>• Student notebooks</li> <li>• Facilitated student discourse</li> <li>• Questioning (T&gt;S, S&gt;S) of randomly called students</li> <li>• Open Response questions, writing prompts</li> <li>• Probing for multiple representations</li> <li>• Peer assessment</li> <li>• Student-developed problems and solutions</li> <li>• Exit ticket/poll question</li> </ul>	<p>CME Algebra 1 Text</p> <p>LHS Math Website (includes resources for planning, instruction and assessment):  <a href="https://sites.google.com/site/lawrencehsmath/">https://sites.google.com/site/lawrencehsmath/</a></p> <p>CME Project website:  <a href="http://cmeproject.edc.org">http://cmeproject.edc.org</a></p> <p>Pearson Online text and resources:  <a href="http://www.pearsonsuccessnet.com">www.pearsonsuccessnet.com</a></p> <p>Common Core Standards of Mathematical Practice</p> <p>Illustrative Mathematics Project</p> <p>Common Core Standards of Mathematical Practice</p> <p>Problem solving strategy: <i>Noticing and Wondering</i></p> <p>For intervention and remediation:            Khan Academy videos and assessments</p>

**Lawrence Public Schools**  
**Mathematics Curriculum Map, 2014-2015**  
**Algebra 1**

**Chapter 7: Polynomials**

Suggested Timeframe: 18 days

Standards	Concepts	Learning Outcomes	Assessment	Resources
<p><b>A-SSE 2, 3a,b,c</b>            Use the structure of an expression to identify ways to rewrite it. Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression</p> <p><b>A-APR 1</b>            Perform arithmetic operations on polynomials. Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add subtract, multi[ply polynomials</p> <p><b>MP-3</b> Construct viable arguments and critique the reasoning of others (Different forms for different purposes)  <b>MP-7</b> Look for and make use of structure (Form implies function)</p>	<p><b>Polynomials</b></p> <ul style="list-style-type: none"> <li>• Polynomial Identities</li> <li>• Polynomials and their arithmetic</li> <li>• Linear, quadratic, cubic, quartic, and quantic polynomials</li> <li>• Factoring to solve quadratics</li> </ul> <p>Unit vocabulary and notation:            CME p. 89</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Use basic rules and moves to transform expressions</li> <li>• Determine whether different expressions define the same function</li> <li>• Factor expression by identifying a common factor</li> <li>• Apply the Zero-Product Property to factored expressions</li> <li>• Use algebra to simplify long computations, such as computing large sums of consecutive numbers.</li> <li>• Recognize and provide examples of polynomials</li> <li>• Understand the definitions and importance of the terms, <i>coefficient</i> and <i>degree</i></li> <li>• Expand polynomials and express them in normal form</li> <li>• Determine whether polynomials in different forms are equivalent</li> <li>• Add, subtract, and multiply polynomials</li> <li>• Apply the Difference of Squares Theorem to polynomial expressions and numerical examples.</li> <li>• Use difference of squares factoring to solve equations</li> <li>• Factor monic quadratic polynomials</li> <li>• Factor general quadratic polynomials</li> <li>• Use factoring to solve equations</li> </ul>	<p>Summative assessments:</p> <ul style="list-style-type: none"> <li>• Chapter Assessment</li> <li>• Common Mid-year &amp; Final Exams</li> <li>• Regular (weekly) assessments/quizzes</li> <li>• Performance tasks (semester/quarter)</li> </ul> <p>Formative assessments:</p> <ul style="list-style-type: none"> <li>• Do Now</li> <li>• Presentation of student work</li> <li>• Student notebooks</li> <li>• Facilitated student discourse</li> <li>• Questioning (T&gt;S, S&gt;S) of randomly called students</li> <li>• Open Response questions, writing prompts</li> <li>• Probing for multiple representations</li> <li>• Peer assessment</li> <li>• Student-developed problems and solutions</li> <li>• Exit ticket/poll question</li> </ul>	<p>CME Algebra 1 Text</p> <p>LHS Math Website (includes resources for planning, instruction and assessment):  <a href="https://sites.google.com/site/lawrencehsmath/">https://sites.google.com/site/lawrencehsmath/</a></p> <p>CME Project website:  <a href="http://cmeproject.edc.org">http://cmeproject.edc.org</a></p> <p>Pearson Online text and resources:  <a href="http://www.pearsonsuccessnet.com">www.pearsonsuccessnet.com</a></p> <p>Common Core Standards of Mathematical Practice</p> <p>Illustrative Mathematics Project</p> <p>Common Core Standards of Mathematical Practice</p> <p>Problem solving strategy: <i>Noticing and Wondering</i></p> <p>For intervention and remediation:            Khan Academy videos and assessments</p>

**Lawrence Public Schools**  
**Mathematics Curriculum Map, 2014-2015**  
**Algebra 1**

**Chapter 8: Quadratics**

Suggested Timeframe: 18 days

Standards	Concepts	Learning Outcomes	Assessment	Resources
<p><b>A-REI 4a,4b, 7</b> Reasoning with equations and inequalities Solve quadratic equations in one variable Solve a simple system consisting of a linear equation and a quadratic equation in two variables algebraically and graphically.</p> <p><b>F-IF 8a</b> Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.</p> <p><b>MP-7</b> Look for and make use of structure (Different forms for different purposes)  <b>MP-8</b> Look for and express regularity in repeated reasoning (Algorithmic thinking)</p>	<p><b>Quadratics</b></p> <ul style="list-style-type: none"> <li>• The Quadratic Formula</li> <li>• Quadratic graphs and applications</li> <li>• Arithmetic with polynomials</li> <li>• Quadratic Graphs</li> <li>• Applications</li> </ul> <p>Unit vocabulary and notation: CME p. 679</p>	<p>Students will be able to:</p> <ul style="list-style-type: none"> <li>• Use the quadratic formula to solve equations or determine whether an equation has no real solutions</li> <li>• Construct a quadratic equation given the equation</li> <li>• Factor nonmonic quadratics</li> <li>• Optimize some quadratic functions</li> <li>• Graph quadratic functions and examine the graph to find the vertex</li> <li>• Explore word problems involving quadratic functions</li> <li>• Use the graphing method to solve or estimate the solutions of complex equations and inequalities</li> <li>• Sketch the solutions of inequalities of two variables and systems of inequalities of two variables</li> <li>• Use difference tables to analyze quadratics and other polynomials.</li> </ul>	<p>Summative assessments:</p> <ul style="list-style-type: none"> <li>• Chapter Assessment</li> <li>• Common Mid-year &amp; Final Exams</li> <li>• Regular (weekly) assessments/quizzes</li> <li>• Performance tasks (semester/quarter)</li> </ul> <p>Formative assessments:</p> <ul style="list-style-type: none"> <li>• Do Now</li> <li>• Presentation of student work</li> <li>• Student notebooks</li> <li>• Facilitated student discourse</li> <li>• Questioning (T&gt;S, S&gt;S) of randomly called students</li> <li>• Open Response questions, writing prompts</li> <li>• Probing for multiple representations</li> <li>• Peer assessment</li> <li>• Student-developed problems and solutions</li> <li>• Exit ticket/poll question</li> </ul>	<p>CME Algebra 1 Text</p> <p>LHS Math Website (includes resources for planning, instruction and assessment):  <a href="https://sites.google.com/site/lawrencehsmath/">https://sites.google.com/site/lawrencehsmath/</a></p> <p>CME Project website:  <a href="http://cmeproject.edc.org">http://cmeproject.edc.org</a></p> <p>Pearson Online text and resources:  <a href="http://www.pearsonsuccessnet.com">www.pearsonsuccessnet.com</a></p> <p>Common Core Standards of Mathematical Practice</p> <p>Illustrative Mathematics Project</p> <p>Common Core Standards of Mathematical Practice</p> <p>Problem solving strategy: <i>Noticing and Wondering</i></p> <p>For intervention and remediation:            Khan Academy videos and assessments</p>