

**Please Note:**

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course are best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

**Publisher Resource:**

HMH (Holt McDougal) - [My.hrw.com](http://My.hrw.com)

Username: SJCSD55FLs#####

Password: First initial + last initial + the student birthday in MMDDYYYY format (initials must be in CAPS)

**Other Course Supplemental Resources:**

[Math Nation](#) (use student Active Directory)

[Study Island](#) (use student Active Directory)

[IXL Math – High School Standards](#)

**FSA Practice: (Please Note: these links work best in Firefox or Chrome)**

[FSA Portal](#)

[FSA Scientific Calculator](#)

[Equation Editor Item Tutorial](#)

[PARCC](#)

[Smarter Balanced Portal](#)

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

# Algebra 1

2016 – 2017

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 14	1 8/10 - 8/12	<b>Unit 1 – Working with Expressions</b> <ul style="list-style-type: none"> <li>• Number Sense (Operations of Real Numbers)</li> <li>• Lesson 2.2 p.38 Properties of Real Numbers (Associative, Commutative, Identity)</li> </ul>	
	2 8/15 – 8/19	<b>Unit 1 – Working with Expressions</b> <ul style="list-style-type: none"> <li>• Lesson 2.2 p.41, 42 Rational &amp; Irrational Properties (Sum and Product of Rational &amp; Irrational)</li> <li>• Algebra Nation Topic – Section 5 Video 5</li> <li>• Lesson 3.1 p.52 – Order of Operations</li> <li>• Lesson 3.2 p.57, 58 (Distributive Property)</li> <li>• Lesson 4.1 p.89 – Equations in One Variable (Combining Like Terms, Justify Steps, Include fractional coefficients)</li> </ul>	Lesson 3.2 - <a href="#">Khan Academy</a>
	3 8/22 – 8/26	<b>Unit 2 – Solving Equations &amp; Inequalities in One Variable on One Side &amp; Both Sides (Use up to 4 steps to isolate the variable)</b> <ul style="list-style-type: none"> <li>• Lesson 4.1 p.89 – Solving Inequalities in one Variable multi-step</li> <li>• Lesson 4.2 p.97 – Solving Inequalities in One Variable (Combining Like Terms, Justify Steps, Include fractional coefficients)</li> <li>• Algebra Nation Topic - Solving &amp; Graphing Compound Inequalities Section 2 Video 5 &amp; 6</li> <li>• Lesson 4.3 p.107 - Solving Literal Equations</li> </ul>	Lesson 4.1 - <a href="#">Khan Academy</a> Lesson 4.2 - <a href="#">Khan Academy</a>  Lesson 4.3 - <a href="#">Khan Academy</a>
	4 8/29 – 9/2	<b>Unit 2 – Solving Equations &amp; Inequalities in One Variable on One Side &amp; Both Sides (Use up to 4 steps to isolate the variable)</b> <ul style="list-style-type: none"> <li>• Lesson 4.1 &amp; 4.2- Solving Equations &amp; Inequalities in Real-Life Situations</li> <li>• Assessment</li> </ul>	
	5 9/6 – 9/9	<b>Unit 3 – Introduction to Functions</b> <ul style="list-style-type: none"> <li>• Algebra Nation Topic - Solving Equations in Real-Life Situations</li> <li>• Algebra Nation Topic - Equations True or False</li> <li>• Algebra Nation Topic - Equations with Variable in the Denominator</li> <li>• Algebra Nation Topic - Solving Equations Using the Zero Product Property</li> <li>• Algebra Nation Topic – Section 4 Introduction to Functions (Video 5)</li> </ul>	
	6 9/12 – 9/16	<b>Unit 4 – Linear Functions &amp; Inequalities</b> <ul style="list-style-type: none"> <li>• Unpacking the Standards p118-What is a Function (Definition &amp; Notation)</li> <li>• Lesson 5.1 - Evaluating a Function (Input and output)</li> <li>• Lesson 5.2 - Representing Functions (Graph, Table, Mapping, Ordered Pairs, and Diagram)</li> </ul>	Lesson 5.1 - <a href="#">Khan Academy</a>
	7 9/19 – 9/23	<b>Unit 4 – Linear Functions &amp; Inequalities</b> <ul style="list-style-type: none"> <li>• Lesson 6.1 - p.155 Linear Functions</li> <li>• Lesson 6.2 - p.163 Using Intercepts</li> </ul>	Lesson 6.1 - <a href="#">Khan Academy</a> Lesson 6.2 - <a href="#">Khan Academy</a>

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

# Algebra 1

2016 – 2017

		<ul style="list-style-type: none"> <li>Lesson 6.3 - p.171 Using Slope</li> <li>Lesson 6.4 - p.179 Slope Intercept Form</li> </ul>	Lesson 6.3 - <a href="#">Khan Academy</a> Lesson 6.4 - <a href="#">Khan Academy</a>
8 9/26 – 9/30		<b>Unit 4- Linear Functions &amp; Inequalities</b> <ul style="list-style-type: none"> <li>Lesson 6.5 – p.187 Comparing Linear Functions</li> <li>Lesson 6.6 – p.193 Transforming Linear Functions (Interpreting Key Features)</li> <li>Lesson 6.7 – p.201 Writing Linear Functions from a word problem or graph.</li> </ul>	Lesson 6.6 - <a href="#">Math Learning</a>
9 10/3 – 10/7		<b>Unit 4- Linear Functions &amp; Inequalities</b> <ul style="list-style-type: none"> <li>Lesson 5.3 – p.133 Understanding Sequences</li> <li>Algebra Nation Topic – Section 4 Video 1</li> <li>Lesson 7.1 – p.213 Writing Arithmetic Sequences</li> <li>Lesson 7.2 – p.219 Operations with Linear Functions</li> </ul>	Lesson 5.3 - <a href="#">Khan Academy</a>
10 10/10 – 10/14		<b>Unit 4- Linear Functions &amp; Inequalities</b> <ul style="list-style-type: none"> <li>Lesson 7.4 – p.233 Linear Inequalities in Two Variables</li> <li>Algebra Nation Topic – Section 3 Video 7</li> <li>Assessment</li> </ul>	Lesson 7.4 - <a href="#">Khan Academy</a>

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

# Algebra 1

2016 – 2017

	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 18 – Dec 21	1 10/18 – 10/21	<b>Unit 5 – System of Linear Equations &amp; Inequalities</b> <ul style="list-style-type: none"> <li>• Lesson 9.1 – p.277 Solving Linear Systems by Graphing</li> <li>• Lesson 9.2 - p.285 Solving Linear Systems by Substitution</li> </ul>	Lesson 9.1 - <a href="#">Khan Academy</a> Lesson 9.2 - <a href="#">Khan Academy</a>
	2 10/24 – 10/28	<b>Unit 5 – System of Linear Equations &amp; Inequalities</b> <ul style="list-style-type: none"> <li>• Lesson 9.3 – p.293 Solving Linear Systems by Adding or Subtracting</li> <li>• Lesson 9.4 – p.303 Solving Linear Systems by Multiplying</li> <li>• Real World Problems</li> </ul>	Lesson 9.3 - <a href="#">Khan Academy</a> Lesson 9.4 - <a href="#">Khan Academy</a>
	3 10/31 – 11/4	<b>Unit 5 – System of Linear Equations &amp; Inequalities</b> <ul style="list-style-type: none"> <li>• Lesson 9.5 – p.311 Solving Systems of Linear Inequalities</li> <li>• Assessment</li> </ul>	Lesson 9.5 - <a href="#">Khan Academy</a>
	4 11/7 – 11/10	<b>Unit 6 – Exponential Functions</b> <ul style="list-style-type: none"> <li>• Lesson 2.1 – p31 Properties of Exponents Algebra Nation Topic - Section 5 Video 1</li> <li>• Rewrite Radical Expressions as Rational Exponents Algebra Nation Topic – Section 5 Video 2</li> <li>• Operations with Radical &amp; Rational Exponents</li> <li>• Algebra Nation Topic – Section 5 Videos 3 &amp; 4</li> </ul>	
	5 11/14 – 11/18	<b>Unit 6 – Exponential Functions</b> <ul style="list-style-type: none"> <li>• Lesson 10.3 – p.353 Geometric Sequences</li> <li>• Algebra Nation Topic - Section 8 Video 1 &amp; 2</li> <li>• Lesson 10.1 – p.337 Exponential Functions (Identifying Parts)</li> <li>• Algebra Nation – Section 8 Video 3</li> <li>• Lesson 10.2 – p.345 Recognizing Growth &amp; Decay Given a Table or Graph</li> <li>• Algebra Nation Topic - Section 8 Video 4 – 6</li> </ul>	Lesson 10.3 - <a href="#">Khan Academy</a>  Lesson 10.1 - <a href="#">Khan Academy</a>  Lesson 10.2 - <a href="#">Khan Academy</a>
	6 11/21 – 11/22	<ul style="list-style-type: none"> <li>• Assessment</li> </ul>	
	7 11/28 – 12/2	<b>Unit 6 – Exponential Functions</b> <ul style="list-style-type: none"> <li>• Graph Exponential Functions by a table, intercepts, and describe the end behavior</li> <li>• State the domain &amp; range of an exponential function</li> <li>• Lesson 10.4 – p.361 Transformations of Exponential Functions</li> <li>• Lesson 11.2 – p.387 Comparing Linear &amp; Exponential Functions</li> </ul>	Lesson 10.4 - <a href="#">Study.com</a>
	8 12/5 – 12/9	<b>Unit 7 – Polynomials</b> <ul style="list-style-type: none"> <li>• Lesson 14.2 – Adding &amp; Subtracting Polynomials</li> <li>• Lesson 14.3 – Multiply Polynomials by Monomials</li> <li>• Lesson 14.4 – Multiply Polynomials</li> </ul>	

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

# Algebra 1

2016 – 2017

	9 12/12 – 12/16	<ul style="list-style-type: none"><li>• Review</li><li>• District Exams</li></ul>	
	10 12/19 – 12/21	<ul style="list-style-type: none"><li>• District Exams</li></ul>	

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 5 – Mar 10	1 1/5 – 1/6	<b>Unit 7 - Quadratics</b> <ul style="list-style-type: none"> <li>Lesson 15.1 Factoring Polynomials</li> <li>Lesson 15.2 Factoring <math>x^2 + bx + c</math></li> </ul>	Lesson 15.1 - <a href="#">Khan Academy</a> Lesson 15.2 - <a href="#">Khan Academy</a>
	2 1/9 – 1/13	<b>Unit 7 - Quadratics</b> <ul style="list-style-type: none"> <li>Lesson 15.2 Factoring <math>x^2 + bx + c</math></li> <li>Lesson 15.3 Factoring <math>ax^2+bx+c</math></li> <li>Lesson 15.4 Factoring Special Products</li> </ul>	Lesson 15.3 - <a href="#">Khan Academy</a> Lesson 15.4 - <a href="#">Khan Academy</a>
	3 1/17 – 1/20	<b>Unit 7 - Quadratics</b> <ul style="list-style-type: none"> <li>Lesson 16.2 – Solving <math>x^2+bx+c = 0</math> by Factoring (Emphasize the Zero Product Property)</li> <li>Lesson 16.3 - Solving <math>ax^2+bx+c = 0</math> by factoring</li> <li>Lesson 16.1 – Solving Quadratic Equations Using Square Roots</li> <li>Algebra Nation Topic – Section 6 Video 4-7</li> </ul>	Lesson 16.2 - <a href="#">Khan Academy</a> Lesson 16.3 - <a href="#">Khan Academy</a> Lesson 16.1 – <a href="#">Khan Academy</a>
	4 1/23 – 1/27	<b>Unit 7 - Quadratics</b> <ul style="list-style-type: none"> <li>Lesson 16.4 – Solving <math>x^2+bx+c = 0</math> by Completing the Square</li> <li>Lesson 16.5 – Solving <math>ax^2+bx+c = 0</math> by Completing the Square</li> <li>Lesson 16.6 – Solving <math>ax^2+bx+c = 0</math> by The Quadratic Formula</li> <li>Algebra Nation Topic – Section 6 Video 2 &amp; 8</li> <li>Algebra Nation Topic – Section 7 Video 5</li> </ul>	Lesson 16.4 - <a href="#">Khan Academy</a> Lesson 16.5 - <a href="#">Khan Academy</a> Lesson 16.6 - <a href="#">Khan Academy</a>
	5 1/30 – 2/3	<b>Unit 7 - Quadratics</b> <ul style="list-style-type: none"> <li>Algebra Nation Topic – Section 6 Video 1 &amp; 9</li> <li>Lesson 17.4 Characteristics of Quadratic Functions</li> <li>Algebra Nation Topic - Section 7 Video 1</li> <li>Lesson 17.5 Solving Quadratic Equations Graphically</li> <li>Lesson 17.1 – Translating Quadratic Functions &amp; Vertex Form</li> <li>Lesson 17.2 – Stretching, Shrinking, and Reflecting Quadratic Functions</li> <li>Algebra Nation Topic – Section 7 Video 4 &amp; 6</li> <li>Lesson 17.3 – Combined Transformations (AN 7 V4)</li> </ul>	Lesson 17.4 - <a href="#">Khan Academy</a>  Lesson 17.1 - <a href="#">Hotmath</a> Lesson 17.2 - <a href="#">Hotmath</a>  Lesson 17.3 - <a href="#">Hotmath</a>
	6 2/6 – 2/10	<b>Unit 7 - Quadratics</b> <ul style="list-style-type: none"> <li>17.6 End Behavior (Algebra Nation Topic 7 V6) – Graphing Polynomial Functions</li> <li>Comparing Linear, Quadratic, Exponential - Algebra Nation Section 9 Video 1</li> <li>Comparing Functions using tables Algebra Nation Section 9 Video 2)</li> <li>Quadratic Word Problems (Projectile Motion, Area) Algebra Nation Section 6 Video 9</li> </ul>	Lesson 17.6 - <a href="#">Spohia.org</a>
	7 2/13 – 2/16	<b>Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations</b> <ul style="list-style-type: none"> <li>19.1 Square Root Functions</li> <li>19.2 Transforming Square Root Functions</li> <li>18.1 Piecewise Functions</li> </ul>	Lesson 18.1 - <a href="#">Khan Academy</a>

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

# Algebra 1

2016 – 2017

		<ul style="list-style-type: none"> <li>18.2 Absolute Value Functions</li> </ul>	Lesson 18.2 - <a href="#">Khan Academy</a>
8 2/21 – 2/24	<b>Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations</b> <ul style="list-style-type: none"> <li>18.3 Transforming Absolute Value Functions</li> <li>Transformations Recap (Algebra Nation Section 4 Video 5 &amp; 6 and Section 9 Video 1 &amp; 2)</li> <li>Modeling Linear Functions (Algebra Nation Section 9 Video 3)</li> </ul>		
9 2/27 – 3/3	<b>Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations</b> <ul style="list-style-type: none"> <li>Modeling Quadratic Functions (Algebra Nation Section 9 Video 4)</li> <li>Modeling Exponential Functions (Algebra Nation Section 9 Video 5)</li> </ul>		
10 3/6 – 3/10	<b>Unit 9 – Data and Statistics</b> <ul style="list-style-type: none"> <li>13.1 Measures of Center and Spread</li> <li>13.2 Data and Outliers</li> </ul>		Lesson 13.2 - <a href="#">Khan Academy</a>

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 4 Mar 21 – May 24	1 3/12 – 3/24	<b>Unit 9 – Data and Statistics</b> <ul style="list-style-type: none"> <li>13.3 Histograms</li> <li>13.4 Box Plots</li> <li>13.5 Normal Distributions</li> </ul>	Lesson 13.3 - <a href="#">Khan Academy</a> Lesson 13.4 - <a href="#">Khan Academy</a>
	2 3/27 – 3/31	<b>Unit 9 – Data and Statistics</b> <ul style="list-style-type: none"> <li>12.1 Two-Way Frequency Tables</li> <li>12.2 Relative Frequency</li> </ul>	Lesson 12.1 - <a href="#">Khan Academy</a> Lesson 12.2 - <a href="#">Khan Academy</a>
	3 4/3 – 4/7	<b>Unit 9 – Data and Statistics</b> <ul style="list-style-type: none"> <li>8.1 Correlation</li> <li>8.2 Fitting Lines to Data</li> <li>8.3 Linear Regression</li> </ul>	Lesson 8.1 - <a href="#">Khan Academy</a> Lesson 8.2 - <a href="#">Khan Academy</a> Lesson 8.3 - <a href="#">Stat Trek</a>
	4 4/10 – 4/13	<b>Unit 9 – Data and Statistics</b> <ul style="list-style-type: none"> <li>11.1 Quadratic and Exponential Regression</li> </ul>	
	5 4/17 – 4/21	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	Algebra 1 Standards – <a href="#">Florida Student</a>
	6 4/24 – 4/28	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	
	7 5/1 – 5/5	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	
	8 5/8 – 5/12	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	
	9 5/15 – 5/19	<ul style="list-style-type: none"> <li>FINAL EXAMS</li> </ul>	
	10 5/22 – 5/24	<ul style="list-style-type: none"> <li>FINAL EXAMS</li> </ul>	

All standards are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.