

**Byron Union School District (BUSD) 2010-11**  
**Suggested Pacing Guide for Algebra I**  
**Text: Holt Algebra I**

<b>Time/ # of days</b>	<b>Topics: Content &amp; Assessment</b>	<b>CA Content Standards</b>	<b>Supplemental Resources*</b>
<b>11</b>	<b>Chapter 1: Foundations of Algebra</b>		
1	1.1 Variables and Expressions	Prep for 4.0	
1	1.2 Addition and Subtraction of Real Numbers	2.0	Integer Dialogue
1	1.3 Multiplication and Division of Real Numbers	2.0	
1	1.4 Powers and Exponents	2.0	
1	Logical Reasoning/Review for Quiz	24.2	
1	Assessment: Concept Connection and Ready to go on? Quiz	2.0	
1	1.6 Properties of Real Numbers	1.0, 24.3, 25.1	
1	1.7 Simplifying Expressions	1.1, 25.1 Gr. 7, MG 2	
2	Assessment – Benchmark	2.0	

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<b>12</b>	<b>Chapter 2: Equations</b>		
2	2.1, 2.2 Solving One Step, Two Step Equations Connecting Geometry	2.0, 5.0	Two column proofs  Clear denominators
1	2.3 Multi-Step Equations	4.0, 5.0	
1	2.4 Equations with Variables on Both Sides	4.0, 5.0	
1	Logical Reasoning: Deductive Reasoning Review	5.0, 24.1-2, 25.1-2	
1	Assessment: Concept Connection and Ready to go on? Quiz	5.0	
1	2.5 Solving Proportions	15.0	Bar models, decompose and equivalent form of one
1	2.6 Solving Literal Equations	5.0	
2	2.7 Solving Absolute Value Equations	3.0, 5.0	3 methods – traditional, number line, graphing
2	Assessment - Benchmark	3.0, 5.0, 15.0	

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<b>14</b>	<b>Chapter 3: Inequalities</b>		
2	Review 3.1, 3.2, 3.3	5.0	Lesson quizzes
1	Assessment: Concept Connection and Ready to go on? Quiz		
1	3.4 Solving Multi-Step Inequalities	4.0, 5.0	Two column proofs
1	3.5 Solving Inequalities Variables on Both Side	4.0, 5.0	
2	3.6 Solving Compound Inequalities	5.0	
2	3.7 Solving Absolute Value Inequalities	5.0	
2	Logical Reasoning Deductive Reasoning: Triangle Inequality Review	5.0, 24.2, 25.1-2, Gr.7, NS 1.1	Pg. 177 Assess 4-6
1	Assessment: Concept Connection and Ready to go on? Quiz		
2	Assessment – Benchmark Final Cumulative Review 1-3	4.0, 5.0	

<b>Time/ # of days</b>	<b>Topics: Content &amp; Assessment</b>	<b>CA Content Standards</b>	<b>Supplemental Resources*</b>
<b>6</b>	<b>Chapter 4: Functions</b>		
1	4.1 Graphing Relationships	Gr. 7 AF 1.5	
1	4.2 Relations and Functions	16.0, 17.0, 18.0	
1	4.3 Writing and Graphing Functions & 9.1 Quadratic Functions	16.0, 17.0	
1	Assessment: Concept Connection and Ready to go on? Quiz	16.0, 17.0, 18.0	
1	4.4 Scatter Plots	Gr. 7	
1	Assessment - Benchmark	16.0, 17.0, 18.0	

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<b>18</b>	<b>Chapter 5: Linear Functions</b>		
3	5.1 Linear Equations and Functions	6.0, 7.0, 17.0, 18.0	3 forms of a line side-by-side
2	5.2 Using Intercepts	6.0	“finger method” for intercepts
1	Assessment: Concept Connection Lab	6.0, 7.0, 24.1	Practice converting between 3 forms of a line
2	5.3 Slope & 5.4 (Use Graphing Calculator – family of functions lesson)	6.0, 8.0	Intercept shifting using transparencies
1	Assessment: Concept Connection and Ready to go on? Quiz	6.0, 7.0	
2	5.5 Slope Intercept Form	6.0	
2	5.6 Point Slope Form	6.0, 7.0	
2	5.7 Slopes of Parallel and Perpendicular	8.0, 25.1	
2	Cumulative Review 1-5	1, 1-1, 2, 4, 5, 6, 7, 8, 17.0, 18.0, 24.3	Emphasize Standard form
1	Assessment Chapter 5	6.0, 7.0, 8.0	

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<b>14</b>	<b>Chapter 6: System of Equations and Inequalities</b>		
1	6.1 Solve Systems by Graphing	6.0, 9.0	
1	6.2 Solve Systems by Substitution	9.0	<b>Problem Solving Strategies</b>
1	6.3 Solve Systems by Elimination	9.0	
1	6.4 Solve Special Systems	8.0, 9.0	
1	6.5 Applying Systems	9.0, 15.0	
1	Review 6.1 – 6.5		
1	Assessment: Concept Connection and Ready to go on? Quiz	8.0, 9.0, 15.0	
2	6.6 Solving Linear Inequalities	6.0	<b>Test points Intervention questioning Stragey</b>
2	6.7 Solve Systems of Linear Inequalities	6.0, 9.0	
1	Assessment: Concept Connection and Ready to go on? Quiz	6.0, 9.0, 15.0	
2	Assessment - Benchmark	3.0, 5.0, 6.0, 8.0, 9.0, 15.0, 17.0	

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<b>18</b>	<b>Chapter 7: Exponents and Polynomials</b>		
1	7.1 Integer Exponents	2.0	
1	7.2 Scientific Notation	2.0	
1	Lab: Inductive and Proper Use of Exponents	2.0, 24.1	
4	7.3 Multiply Properties of Exponents 7.4 Divide Properties of Exponents 7.5 Fractional Exponents & 1.5 Roots and Irrationals	2.0 2.0 2.0, 9.0, 15.0	
1	Assessment: Concept Connection and Ready to go on? Quiz	2.0, 9.0, 15.0	
1	Lab: Modeling Polynomial Multiplication Addition and Subtraction	10.0	
3	7.6 Polynomials 7.7 Polynomials Additions and Subtraction	10.0	
1	Lab Model Polynomial Multiplication	10.0	
1	7.8 Multiplying Polynomials	10.0	Area models, and generic rectangle
1	7.9 Special Products	10.0	
1	Assessment: Concept Connection and Ready to go on? Quiz	2.0, 9.0, 10.0, 15.0	
2	Assessment Final Cumulative Test 1-7	2.0, 4.0, 6.0, 7.0, 8.0, 9.0, 10.0	

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<b>13</b>	<b>Chapter 8: Factoring Polynomials</b>		
1	8.1 Factors and Greatest Common Factor	11.0	<b>Decomposition</b>
2	Labs: 8.2, 8.3, 8.4 Modeling Factorization	11.0	
1	8.2 Factoring GCF	11.0	
1	8.3 Factoring Trinomials	11.0	
1	8.4 Factoring Trinomials with Lead Coefficient	11.0	<b>Student to student factoring p. 508</b>
1	Assessment: Concept Connection and Ready to go on? Quiz	5.0, 11.0, 15.0	
3	8.5 Factoring Special Products 8.6 Choosing a Factoring Method	11.0	<b>Reading strategy: Factoring Flowchart</b>
1	Assessment: Concept Connection and Ready to go on? Quiz	5.0, 11.0, 15.0	
2	Assessment Benchmark	11.0, 24.3, 25.0	

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<b>18</b>	<b>Chapter 9: Quadratic Functions and Equations</b>		
1	9.1 Quadratic Equations and Functions		
4	Lab: Axis Symmetry 9.2 Characteristics of Quadratic Functions 9.3 Graphic Quadratic Functions	24.1, 21.0, 23.0, 21.0, 23	
1	Assessment: Concept Connection and Ready to go on? Quiz	21.0, 23.0	
4	9.4 Solving Quadratic Equations by Graphing 9.5 Solving Quadratic Equations by Factoring 9.6 Solving Quadratic Equations by Using Square Roots	21.0, 23.0 14.0, 23.0, 2.0 23.0	
1	Connecting to Geometry: Distance Formula	Gr. 6 and 7	
2	9.7 Completing the Square		
2	9.8 Quadratic Formula 9.9 Discriminant	19.0, 20.0 22.0, 23.0	<b>Pg. 601 Think and Discuss</b>
1	Assessment: Concept Connection and Ready to go on? Quiz	2, 14, 19, 21.0 22, 23	
2	Assessment: Benchmark	2, 5, 7, 8, 9, 10 11, 14, 16, 17 18, 20, 21, 22	

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<b>18-20</b>	<b>Chapter 10: Rational Functions and Equations</b>		
1	Lab: Model Inverse Variation	13.0	
1	10.1 Inverse Variation	13.0, 17.0	Relate to Direct Variation (1.5)
1	10.2 Rational Functions	13.0, 17.0	Finger method for asymptotes
1	10.3 Simplifying Rational Functions	12.0	Quantify numerators & denominators
1	Assessment: Concept Connection and Ready to go on? Quiz	12.0, 13.0, 15.0, 17.0	
3	10.4 Multiplying and Dividing 10.5 Adding and Subtracting	13.0, 15.0	
1	Lab Model Polynomial Division	10.0	Decomposition
1	10.6 Dividing Polynomial	10.0, 12.0	
1	10.7 Solving Rational Equations	15.0	
1	10.8 Applying Rational Equations	15.0	
1	Assessment: Concept Connection and Ready to go on? Quiz	10.0, 12.0 13.0, 15.0	
2	Assessment: Cumulative Review Chapters 1-10	2, 6, 7, 8, 9, 10 11, 12, 13, 15 17, 20, 21, 22	
3-5	CST Review		