

# Byron Union School District 2008-09

## 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>11</b>	<b>Chapter 1: Fundamentals of Algebra</b>	
1	1.1 Variables and Expressions (lab)	Prep for 4.0
1	1.2 Addition and Subtraction of Real Numbers	2.0
1	1.3 Multiplication and Division of Real Numbers	2.0
1	1.4 Powers and Exponents	2.0
1	1.5 Roots and Irrationals	2.0
1	Logical Reasoning/ Review for Quiz	24.2
1	Assessment < Concept Connection Ready to Go On	2.0
1	1.6 Properties of Real Numbers	1.0, 24.3, 25.1
1	1.7 Simplifying Expressions Connecting to Geometry < Perimeter Review	1.1, 25.1 Gr. 7, MG 2.0
2	Assessment – Benchmark	2.0

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<b>11</b>	<b>Chapter 2: Equations</b>	
2	Review 2.1, 2.2: Solving One Step, Two Step Equations Connecting to Geometry	2.0, 5.0
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 Ready to Go On	5.0
1	2.5 Solving Proportions	15.0
1	2.6 Solving Literal Equations	5.0
1	2.7 Solving Absolute Value Equations	3.0, 5.0
1	Logical Reasoning < Proving Conditional Statements Review	3.0, 5.0, 15.0
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
1	Assessment < Concept Connection Ready to Go On	
1	3.4 Solving Multi-Step Inequalities	4.0, 5.0
1	3.5 Solving Inequalities Variables on Both Sides	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
1	Assessment < Concept Connection Ready to Go On	
2	Assessment – Benchmark 1 <sup>st</sup> Trimester Final: Cumulative Test Chapters 1-3	4.0, 5.0

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<b>Time/ # of days</b>	<b>Topics: Content &amp; Assessment</b>	<b>CA Content Standards</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	16.0, 17.0
1	Assessment < Concept Connection Ready to Go On	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>Time/ # of days</b>	<b>Topics: Content &amp; Assessment</b>	<b>CA Content Standards</b>
<b>18</b>	<b>Chapter 5: Linear Functions</b>	
3	5.1 Linear Equation and Functions	6.0, 7.0, 17.0, 18.0
2	5.2 Using Intercepts	6.0
1	Assessment < Concept Connection Lab	6.0, 7.0, 24.1
2	5.3 Slope	6.0, 8.0
1	Assessment < Concept Connection Ready to Go On	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
3	Assessment Zap It 3	

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Time/ # of days	Topics: Content & Assessment	CA Content Standards
14	<b>Chapter 6: System of Equations &amp; Inequalities</b>	
1	6.1 Solve Systems by Graphing	6.0, 9.0
1	6.2 Solve Systems by Substitution	9.0
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 Ready to Go On	8.0, 9.0, 15.0
2	6.6 Solve Linear Inequalities	6.0
2	6.7 Solve Systems of Linear Inequalities	6.0, 9.0
1	Assessment < Concept Connection Ready to Go On	6.0, 9.0, 15.0
2	Assessment – Benchmark	

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Time/ # of days	Topics: Content & Assessment	CA Content Standards
<b>18</b>	<b>Chapter 7: Exponents</b>	
1	7.1 Integer Exponents	2.0
1	7.2 Scientific Notation	2.0
1	Lab < Inductive 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	2.0 2.0 9.0, 15.0
1	Assessment < Concept Connection Ready to Go On	2.0, 9.0, 15.0
1	Lab Modeling Polynomial Addition and Subtraction	10.0
3	7.6 Polynomials 7.7 Polynomials Addition & Subtraction	10.0
1	Lab Model Polynomial Multiplication	10.0
1	7.8 Multiplying Polynomials	10.0
1	7.9 Special Products	10.0
1	Assessment < Concept Connection Ready to Go On	2.0, 9.0, 10.0, 15.0
2	Assessment – Benchmark 2 <sup>nd</sup> Trimester Final: Cumulative Test Chapters 1-7	2.0, 9.0, 10.0, 15.0

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Time/ # of days	Topics: Content & Assessment	CA Content Standards
<b>13</b>	<b>Chapter 8: Factoring Polynomials</b>	
1	8.1 Factors & Greatest Common Factor ( Perhaps do 1 <sup>st</sup> week of school)	11.0
2	Labs 8.2, 8.3, 8.4 Modeling Factorization	11.0
1	8.2 Factoring by GCF	11.0
1	8.3 Factoring Trinomials	11.0
1	8.4 Factoring Trinomials with Lead Coefficient	11.0
1	Assessment < Concept Connecting Ready to Go On	5.0, 11.0, 15.0
3	8.5 Factoring Special Products 8.6 Choosing a Factoring Method	11.0
1	Assessment < Concept Connecting Ready to Go On	5.0, 11.0, 15.0
2	Assessment – Benchmark	11.0

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Time/ # of days	Topics: Content & Assessment	CA Content Standards
<b>18</b>	<b>Chapter 9: Quadratic Functions &amp; Equations</b>	
1	9.1 Quadratic Equations and Functions	7.0, 17.0, 21.0
4	Lab Axis of Symmetry 9.2 Characteristics of Quadratic Functions 9.3 Graphic Quadratic Functions	24.1 21.0, 23.0 21.0, 23.0
1	Assessment < Concept Connection Ready to Go On	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 Square Roots	21.0, 23.0 14.0, 23.0 2.0, 23.0
1	Connecting to Geometry – Distance Formula	Gr. 6 & 7
1	Lab Model Completing the Square	14.0
1	9.7 Completing the Square	2.0, 14.0, 23.0
2	9.8 Quadratic Formula 9.9 Discriminant	19.0, 20.0 22.0, 23.0
1	Assessment < Concept Connection Ready to Go On	2.0, 7.0, 11.0, 14.0, 17.0, 19.0, 20.0, 21.0, 22.0, 23.0, 24.1
2	Assessment – Benchmark	2.0, 7.0, 11.0, 14.0, 17.0, 19.0, 20.0, 21.0, 22.0, 23.0, 24.1

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Time/ # of days	Topics: Content & Assessment	CA Content Standards
<b>18-20</b>	<b>Chapter 10: Rational Functions &amp; Equations</b>	
1	Lab Model Inverse Variation	13.0
1	10.1 Inverse Variation	13.0, 17.0
1	10.2 Rational Functions	13.0, 17.0
1	10.3 Simplifying Rational Functions	12.0
1	Assessment < Concept Connection Ready to Go On	12.0, 13.0, 15.0, 17.0
3	10.4 Multiplying & Dividing Rational Expressions 10.5 Adding & Subtracting Rational Expressions	13.0, 15.0
1	Lab Model Polynomial Division	10.0
1	10.6 Dividing Polynomials	10.0, 12.0
1	10.7 Solving Rational Equations	15.0
1	10.8 Applying Rational Equations	15.0
1	Assessment < Concept Connection Ready to Go On	10.0, 12.0, 13.0, 15.0, 17.0
2	Assessment 3 <sup>rd</sup> Trimester Final: Cumulative Test Chapters 1-10	10.0, 12.0, 13.0, 15.0, 17.0
3 – 5	CST Review	

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Time/ # of days	Topics: Content & Assessment	CA Content Standards
<b>21-22</b>	<b>Chapter 11: Radical &amp; Exponential Functions</b>	
1	11.1 Square Root Functions	2.0, 17.0
1	11.2 Radical Expressions	2.0
2	11.3 Adding & Subtracting Radical Expressions	2.0
2	11.4 Multiplying & Dividing Radical Expressions	2.0
2	11.5 Solving Radical Equations	2.0
1	Assessment < Concept Connection Ready to Go On	2.0
2	11.6 Geometric Sequences	Alg. II
1	11.7 Exponential Functions	12.0/ Alg. II
1	Lab: Changing Dimensions	Gr. 7, 2.3
1	Lab: Model Growth and Decay	2.0
1	11.8 Exponential Growth & Decay	12.0/ Alg. II
2	11.9 Linear, Quadratic, & Exponential Models	12.0, 7.0/ Alg. II
1	Assessment < Concept Connection Ready to Go On	
3 – 4	Assessment – Benchmark – Final	