

Algebra I Block Curriculum Map

Key : Glencoe Algebra I; Glencoe Study Guide (SG) Glencoe Handbook (HB) Aleks (A)

Time frame	Unit/Concepts	PA Eligible Content Standard	Assessments	Resources	Support Materials
Marking Period 1	<p>Preparing for Algebra:</p> <p>Problem solving</p> <p>Number systems and operations</p>	<p>A1.1.1.4.1 Use estimation to solve problems.</p> <p>A1.1.1.1.1 Compare and/or order any real numbers. Note: Rational and irrational may be mixed.</p> <p>A1.1.1.2.1 Find the Greatest Common Factor (GCF) and/or the Least Common Multiple (LCM) for sets of monomials.</p>	<p>Quiz 1: Preparing for Algebra</p> <p>Quiz 2: Operations of Rational Numbers</p>	<p>Textbook 0.1-0.5 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>Review the real number system and operations. HB 2.1 Fractions HB 2.5 Real # system HB 1.3 Integer operations HB 2.2 Operations w/ Fractions HB 2.3 Operations w/ decimals HB 2.4 Fractions & Decimals</p>

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Marking period 1	<p>Expression, equations and functions:</p> <p>Variable expressions and properties</p>	<p>A1.2.1.1.1 Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.</p> <p>A1.2.1.1.2 Determine whether a relation is a function, given a set of points or a graph.</p> <p>A1.2.1.1.3 Identify the domain or range of a relation (may be presented as ordered pairs, a graph, or a table).</p>	<p>Quiz 3: Variable expressions and properties</p>	<p>Textbook 1.1-1.4 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>HB 6.1 Writing Expressions and equations HB 1.1 Order of Operations SG 1.2 Order of Operations HB 6.2 Simplify Expressions SG 1.3 Properties of Numbers SG 1.4 Distributive Property</p>
	<p>Equations and functions</p>	<p>A1.1.2.1.1 Write, solve, and/or apply a linear equation (including problem situations).</p> <p>A1.1.2.1.2 Use and/or identify an algebraic property to justify any step in an equation-solving process. Note: Linear equations only.</p> <p>A1.1.2.1.3 Interpret solutions to problems in the context of the problem situation. Note: Linear equations only.</p>		<p>Test 1</p>	<p>Textbook sections 1.5-1.8 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p>

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Marking Period 1	<p>Linear equations: Writing Solving</p>	<p>A1.1.2.1.1 Write, solve, and/or apply a linear equation (including problem situations).</p> <p>A1.1.2.1.2 Use and/or identify an algebraic property to justify any step in an equation-solving process. Note: Linear equations only.</p> <p>A1.1.2.1.3 Interpret solutions to problems in the context of the problem situation. Note: Linear equations only.</p>	<p>Quiz 4: Solving multi-step equations</p> <p>Quiz 5: Absolute value and solving equations with variables on both sides</p> <p>Quiz 6: Literal equations</p>	<p>Textbook sections 2.1-2.5 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions (Key vocabulary (attached list))</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>SG 2.1 Writing equations HB 6.4 Solving linear equations SG 2.2 Solving one step equations SG 2.3 Solving multistep equations</p>
	<p>Applications: Ratios and Proportions Literal Equations</p>		<p>Test 2</p>	<p>Textbook sections 0.6, 2.6-2.8 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>SG 2.4 Equations with variables on both sides HB 6.5 Ratio & proportions SG 2.6 Ratios and Proportions HB 2.7 Using and finding percents SG 2.7 Percent of change SG 2.8 Literal equations</p>

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	<p>Linear Functions: Graph Slope</p> <p>Applications of linear functions: Direct variation</p>	<p>A1.2.1.2.1 Create, interpret, and/or use the equation, graph, or table of a linear function.</p> <p>A1.2.1.2.2 Translate from one representation of a linear function to another (i.e., graph, table, and equation).</p>	<p>Quiz 7: Graphing lines</p> <p>Test 3</p>	<p>Textbook 3.1, 3.3 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p> <p>Textbook 3.4 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions (Key vocabulary (attached list))</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>HB 6.7 Graphing on coordinate plane SG 3.1 Graphing linear equations SG 3.2 Solving linear equations by graphing HB 6.8 Slope and intercept SG 3.3 Rate of change and slope</p> <p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>HB 6.9 Direct Variation SG 3.4 Direct Variation</p>
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Marking period 2	Equations of lines: Graphing Writing	<p>A1.2.1.2.1 Create, interpret, and/or use the equation, graph, or table of a linear function.</p> <p>A1.2.1.2.2 Translate from one representation of a linear function to another (i.e., graph, table, and equation).</p>	Quiz 9: Equations of lines	<p>Textbook 4.1-4.3 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>HB 6.8 Slope and intercept SG 4.1 Graphing equations slope intercept form SG 4.2 Writing equations in slope intercept form SG 4.4 Parallel and perpendicular lines</p>
	Lines of best fit	<p>A1.2.2.1.1 Identify, describe, and/or use constant rates of change.</p> <p>A1.2.2.1.2 Apply the concept of linear rate of change (slope) to solve problems.</p> <p>A1.2.2.1.3 Write or identify a linear equation when given</p> <ul style="list-style-type: none"> •• the graph of the line, •• two points on the line, or •• the slope and a point on the line. <p>A1.2.2.1.4 Determine the slope and/or y-intercept represented by a linear equation or graph.</p>	<p>Quiz 10: best fit equations and parallel and perpendicular</p> <p>Test 4</p>	<p>Textbook 4.4-4.5 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>HB 4.3 Analyzing data SG 4.5 Scatterplots and lines of best fit, correlation</p>

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Marking period 2	<p>Inequalities: Solving</p>	<p>A1.2.2.2.1 Draw, identify, find, and/or write an equation for a line of best fit for a scatter plot.</p> <p>A1.2.3.2.2 Analyze data, make predictions, and/or answer questions based on displayed data (box-and-whisker plots, stem-and-leaf plots, scatter plots, measures of central tendency, or other representations).</p>	<p>Quiz 11: Solving inequalities</p>	<p>Textbook 5.1-5.3 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>HB 6.6 Inequalities SG 5.1 Solving inequalities by adding and subtracting SG 5.2 Solving inequalities by multiplying and dividing SG 5.3 Solving multistep inequalities</p>
Marking period 2	<p>Linear inequalities: Compound Absolute Value Graphing</p>	<p>A1.1.3.1.1 Write or solve compound inequalities and/or graph their solution sets on a number line (may include absolute value inequalities).</p> <p>A1.1.3.1.2 Identify or graph the solution set to a linear inequality on a number line.</p> <p>A1.1.3.1.3 Interpret solutions to problems in the context of the problem situation. Note: Limit to linear inequalities.</p> <p>A1.1.3.1.1 Write or solve compound inequalities and/or graph their solution sets on a number line (may include absolute value inequalities).</p>	<p>Quiz 12: Compound and Absolute Value inequalities and</p> <p>Test 5: Inequalities</p>	<p>Textbook 5.4-5.6 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>SG 5.4 Compound inequalities SG 5.5 Inequalities with absolute value SG 5.6 Graphing inequalities in two variables</p>

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Marking period 2	Systems of equations: Graphing Solving	<p>A1.1.3.2.1 Write and/or solve a system of linear inequalities using graphing. Note: Limit systems to two linear inequalities.</p> <p>A1.1.3.2.2 Interpret solutions to problems in the context of the problem situation. Note: Limit systems to two linear inequalities.</p>	Quiz 13: Systems	Textbook 6.1-6.4 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)	As a formative assessment, Aleks will be used to evaluate student's needs
	Applications and Systems of inequalities	<p>A1.1.2.2.1 Write and/or solve a system of linear equations (including problem situations) using graphing, substitution, and/or elimination. Note: Limit systems to two linear equations.</p> <p>A1.1.2.2.2 Interpret solutions to problems in the context of the problem situation. Note: Limit systems to two linear equations.</p>	Quiz 14: Applications and inequalities Test 6	Textbook 6.5-6.6 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)	<p>HB 6.10 Systems of equations SG 6.1 Graphing systems of equations SG 6.2 Solving systems using substitution SG 6.3 Solving systems using elimination SG 6.4 Elimination using multiplication</p> <p>SG 6.5 Applying systems of linear equations SG 6.6 Systems of linear inequalities</p>

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Marking period 3	<p>Exponents: Properties Scientific notation Percents</p>	<p>A1.1.1.3.1 Simplify/evaluate expressions involving properties/laws of exponents, roots, and/or absolute values to solve problems. Note: Exponents should be integers from -10 to 10.</p>	<p>Quiz 15: Exponential properties 7.1</p> <p>Quiz 16: Exponential properties 7.2</p> <p>Quiz 17: Exponential growth/decay, scientific notation and percents</p> <p>Test 7</p>	<p>Textbook 7.1, 7.2, 7.4 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p> <p>2.7 Percents</p> <p>7.6 Growth and Decay Formula</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>HB 2.6 Percents HB 3.1 Powers and exponents SG 7.1 Multiplication Properties of exponents HB 3.4 Laws of exponents</p> <p>SG 7.2 Division properties of exponents SG 7.3 Rational exponents HB 3.3 Scientific notation SG 7.4 Scientific notation</p>
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Marking period 3	Polynomials: Operations	<p>A1.1.1.5.1 Add, subtract, and/or multiply polynomial expressions (express answers in simplest form). Note: Nothing larger than a binomial multiplied by a trinomial.</p>	Quiz 18: polynomials 8.1-8.3	<p>Textbook 8.1-8.4 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>SG 8.1 Adding polynomials SG 8.2 Multiplying polynomials by a monomial SG 8.3 Multiplying polynomials SG 8.4 Special Products</p>
	Factoring	<p>A1.1.1.5.2 Factor algebraic expressions, including difference of squares and trinomials. Note: Trinomials are limited to the form ax^2+bx+c where a is equal to 1 after factoring out all monomial factors.</p>	Quiz 19: Factoring 1 Quiz 20: Factoring 2	<p>Textbook 8.5-8.9 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions Key vocabulary (attached list)</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>SG 8.5 Using the distributive property HB 1.2 Factors and multiples SG 8.6 Factoring quadratics with leading coefficient of 1 SG 8.7 Factoring quadratics</p>
	Simplifying Rational Expression	<p>A1.1.1.5.3 Simplify/reduce a rational algebraic expressions</p>	Test 8 Quiz 21: Rational Expressions	<p>Textbook 11.3, 11.4 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>SG 11.3 Simplifying rational expressions</p>

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Marking period 4	Simplifying Radicals expressions and Pythagorean Theorem	<p>A1.1.1.1.2 Simplify square roots.</p>	Quiz 22: Radicals	<p>Textbook 10.2, 10.4,10.5, 7.3 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions</p>	<p>As a formative assessment, Aleks will be used to evaluate student's needs</p>
	Probability and Statistics	<p>A1.2.3.1.1 Calculate and/or interpret the range, quartiles, and interquartile range of data. A1.2.3.2.1 Estimate or calculate to make predictions based on a circle, line, bar graph, measures of central tendency, or other representations. A1.2.3.2.2 Analyze data, make predictions, and/or answer questions based on displayed data (box- and-whisker plots, stem-and-leaf plots, scatter plots, measures of central tendency, or other representations). A1.2.3.3.1 Find probabilities for compound events (e.g., find probability of red and blue, find probability of red or blue) and represent as a fraction, decimal, or percent.</p>	Quiz 23: Probability and Statistics	<p>Textbook 0.11- 0.13, 12.6 Interactive Classroom/powerpoint Manipulatives Graphing Calculator Online e-text resources Released Keystone questions</p>	<p>HB 3.2 Square and cube roots SG 10.2 Simplifying radicals HB 7.9 Pythagorean Theorem</p> <p>As a formative assessment, Aleks will be used to evaluate student's needs</p> <p>HB 4.6 Probability HB 4.1 Collecting data HB 4.2 Displaying data HB 4.3 Analyzing data HB 4.4 Statistics</p>

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Marking period 4	Triangle Trig		Keystone Review Quiz 24: Triangle Trig Final Exam	Textbook 10.6	
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