## Instructional Guide

## Grade Level Ninth Grade

Subject Algebral School System Pickens County
School Year 2011-2012

| Time Period (Pacing $-\quad$ when) | AHSGE <br> Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | Mapping Comments (What works what needs adjustment) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1^{\text {st }}$ Nine Weeks |  |  |  |  |  |
| 3 days | I-1 <br> One, two, or no variables <br> Grouping Symbols <br> Exponents <br> Negative <br> Integers | AlgI.1.a Simplify numerical expressions using order of operations. | Text/Teaching Materials: Glencoe Algebra I, Section 1-2 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: order of operations, algebraic expressions, evaluate |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE <br> Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities <br> (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | ```Mapping Comments (What works what needs adjustment)``` |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1^{\text {st }}$ Nine Weeks 6 days | II-1 Grouping <br> Variables on both sides <br> More than one operation with fractions | AlgI.7.a. Solve multi-step equations including linear. <br> AlgI.7.B.1. Writing the solution of an equation in set notation | Text/Teaching Materials: Glencoe Algebra I, Section 3-4, 3-5 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: multi-step equations, consecutive integers, identity |  |  |
| 3 days | II-4 <br> V-3 <br> Negative coefficient <br> Compound inequality <br> Graphs | AlgI.7.f. Solve multi-step inequalities including linear. <br> AlgI.7.B.2. Writing the solution of an inequality in set notation | Text/Teaching Materials: Glencoe Algebra I, Section 6-3 <br> Additional Resources: <br> http://www.swgeorgia.resa.k12.ga.us/Math.html <br> Vocabulary: compound inequality, intersection, union, graph on number line |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | ```Mapping Comments (What works what needs adjustment)``` |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1^{\text {st }}$ Nine Weeks 2 days |  | AlgI.7.c. Solve multi-step equations including absolute value. <br> AlgI.7.B.1. Writing the solution of an equation in set notation AlgI.7.d. Solve multi-step inequalities including absolute value. <br> AlgI.7.B.2. Writing the solution of an inequality in set notation | Text/Teaching Materials: Glencoe Algebra I, Section 6-5 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: open sentences, absolute value |  |  |
| 2 days |  | AlgI.7.e. Solve multi-step equations including literal. <br> AlgI.7.B.1. Writing the solution of an equation in set notation | Text/Teaching Materials: Glencoe Algebra I, Section 3-8 |  |  |
| 2 days | III-1 <br> III-2 <br> Graphs, ordered pairs, tables, mappings $\mathrm{f}(\mathrm{x})=\text { or } \mathrm{y}=$ | AlgI.3.a. Determine properties of a relation including domain and range when given graphs, tables of values, mappings, or sets of ordered pairs. | Text/Teaching Materials: Glencoe Algebra I, Section 4-3 <br> Vocabulary: relation, domain, range, inverse, mapping |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ${ }^{\text {st }}$ Nine Weeks <br> 2 days | III-1 <br> III-2 <br> Domain <br> Set of ordered pairs <br> Function notation | AlgI.3.b. Determine properties of a relation including whether it is a function when given graphs, tables of values, mappings, or sets of ordered pairs. <br> AlgI.3.B. Finding the range of a function when given its domain (function notation) | Text/Teaching Materials: Glencoe Algebra I, Section 4-6 <br> Vocabulary: function, vertical line test, function notation |  |  |
| 2 days | $\text { V-1, } 4$ <br> $\mathrm{f}(\mathrm{x})$ <br> four graphs or equations <br> common relations | AlgI.2.B.5. Graphing two-variable linear equations on the Cartesian plane <br> AlgI.4.a. Construct graphs of common relations, including $\mathrm{x}=$ constant, $\mathrm{y}=$ constant $\mathrm{y}=\mathrm{x}$. AlgI.4.B.1. Identifying applications modeled by common relations, including $x=$ constant,$y=$ constant, $\mathrm{y}=\mathrm{x}$ | Text/Teaching Materials: Glencoe Algebra I, Section 4-5, 5-3 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | ```Mapping Comments (What works what needs adjustment)``` |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1^{\text {st }}$ Nine Weeks 2 days | $\begin{aligned} & \text { V-1, } 4 \\ & \mathrm{f}(\mathrm{x}) \\ & \text { four graphs } \\ & \text { or equations } \\ & \text { common } \\ & \text { relations } \end{aligned}$ | AlgI.4.b. Construct graphs of common relations including $y=\sqrt{x}$ <br> AlgI.4.B.2. Identifying applications modeled by common relations including $y=\sqrt{x}$ AlgI.4.c. Construct graphs of common relations including $y=x^{2}$, <br> AlgI.4.B.3. Identifying applications modeled by common relations including $y=x^{2}$, AlgI.4.d. Construct graphs of common relations including $y=\|x\|$ AlgI.4.B.4. Identifying applications modeled by common relations including $y=\|x\|$ | Text/Teaching Materials: Glencoe Algebra I, Page 604 - Graphing Calculator Investigation, Section 101 <br> AHSGE Student Review Guide Pages 332-334 <br> Vocabulary: quadratic function, parabola, minimum, maximum, vertex, symmetry, axis of symmetry, absolute value |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | ```Mapping Comments (What works what needs adjustment)``` |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1^{\text {st }}$ Nine Weeks 6 days | IV-2 <br> Two points x - and y intercepts <br> point and slope <br> slope and $y$ intercept | AlgI.2.a. Analyze linear functions from their equations for their characteristics including slopes. <br> AlgI.2.B. 1 Determining the slope of a line from its equation AlgI.2.B. 2 Determining the slope of a line by applying the slope formula <br> AlgI.10.c. Calculate slope of a line segment when given coordinates of its endpoints on the Cartesian plane. <br> AlgI.10.B.3. Deriving slope formula for line segments | Text/Teaching Materials: Glencoe Algebra I, Section 5-1, 5-3, 5-4 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: slope, slope-intercept form |  |  |
| 2 days | V-1,4 <br> $\mathrm{f}(\mathrm{x})$ <br> four graphs or equations common relations | AlgI.2.b. Analyze linear functions from their equations for their characteristics including intercepts. <br> AlgI.2.B.3. Determining equations of linear functions given two points, tables of values, graphs, or ordered pairs | Text/Teaching Materials: Glencoe Algebra I, Section 4-5 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: linear equation, standard form |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | Mapping Comments (What works what needs adjustment) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1^{\text {st }}$ Nine Weeks 2 days | $\begin{aligned} & \text { V-1,4 } \\ & \mathrm{f}(\mathrm{x}) \\ & \text { four graphs } \\ & \text { or equations } \\ & \text { common } \\ & \text { relations } \\ & \hline \end{aligned}$ | AlgI.2.B. 4 Determining equations of linear functions given a point and a slope | Text/Teaching Materials: Glencoe Algebra I, Section 5-5 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: point-slope form |  |  |
| 2 days |  | AlgI.2.B.6. Graphing two-variable linear inequalities on the Cartesian plane | Text/Teaching Materials: Glencoe Algebra I, Section 6-6 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: half-plane, boundary |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | Mapping Comments (What works what needs adjustment) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ Nine <br> Weeks |  |  |  |  |  |
| 2 days | I-2 <br> Distributive <br> Property <br> Unlike <br> Denominato <br> rs | AlgI.5.a. Perform operations of addition and subtraction on polynomial expressions. | Text/Teaching Materials: Glencoe Algebra I, Section 8-5, 12-6, 12-7 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: polynomial, LCM, LCD |  |  |
| 4 days | I-3 <br> Parenthesis <br> Squaring <br> Fractions <br> Adding <br> Exponents | AlgI.1.B. Applying laws of exponents to simplify expressions including those containing zero and negative integral exponents. | Text/Teaching Materials: Glencoe Algebra I, Section 8-1, 8-2, 8-3 <br> Vocabulary: exponent, power, monomial, constant, scientific notation |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components (Pacing - what) | Resources/ Activities <br> (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ Nine <br> Weeks <br> 2 days | I-3 <br> Parenthesis <br> Squaring <br> Fractions <br> Adding <br> Exponents | AlgI.5.b. Perform operation of multiplication on polynomial expressions. | Text/Teaching Materials: Glencoe Algebra I, Section 8-6, 8-7, 8-8, 12-3 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: FOIL method, difference of squares |  |  |
| 1 day |  | AlgI.5.B.1. Dividing a polynomial by a monomial | Text/Teaching Materials: Glencoe Algebra I, Section 8-2, 12-5 <br> Vocabulary: zero exponent, negative exponent |  |  |
| 1 day | I-4 <br> GCM <br> trinomial | AlgI.6.a. Use GCF to factor binomials, trinomials, and other polynomials. | Text/Teaching Materials: Glencoe <br> Algebra I, Section 9-1 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: prime, composite, prime <br> factorization, factored form, GCF |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE <br> Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | Mapping Comments (What works what needs adjustment) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ Nine <br> Weeks <br> 1 day | I-4 <br> Difference of two squares | AlgI.6.b. Use difference of squares to factor binomials. | Text/Teaching Materials: Glencoe Algebra I, Section 9-5 |  |  |
| 2 days | I-4 <br> trinomial | AlgI.6.c. Use perfect square trinomials to factor trinomials | Text/Teaching Materials: Glencoe Algebra I, Section 9-6 <br> Vocabulary: perfect square trinomials |  |  |
| 2 days | I-4 <br> Trinomial <br> Common <br> binomial | AlgI.6.d. Use grouping to factor other polynomials. | Text/Teaching Materials: Glencoe Algebra I, Section 9-2 <br> Vocabulary: factoring, factoring by grouping, distributive property, zero product property |  |  |
| 1 day | II-2 <br> factoring | AlgI.9.a. Solve quadratic equations using the zero product property. | Text/Teaching Materials: Glencoe Algebra I, Section 9-2, 9-3, 9-4, 9-5, 9-6 <br> Vocabulary: zero product property, factoring, factoring by grouping, prime polynomial |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE <br> Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | Mapping Comments (What works what needs adjustment) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ Nine <br> Weeks <br> 2 days |  | AlgI.9.B.1. Determining approximate solutions of quadratic equations graphically AlgI.9.B.2. Determining approximate solutions of quadratic equations numerically | Text/Teaching Materials: Glencoe Algebra I, Section 10-2 <br> Vocabulary: quadratic equation, roots, zeros |  |  |
| 2 days |  | AlgI.9.B.3. Solving quadratic equations using the quadratic formula | Text/Teaching Materials: Glencoe Algebra I, Section 10-4 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: Quadratic formula, discriminant |  |  |
| 2 days |  | AlgI.9.B.4. Solving quadratic equations using completing the square | Text/Teaching Materials: Glencoe Algebra I, Section 10-3 <br> Vocabulary: completing the square |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities <br> (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing - how well) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ Nine <br> Weeks <br> 1 day | II-3 <br> Solving for x and y <br> Four graphs | AlgI.8.a. Solve systems of linear equations in two variables graphically. <br> AlgI.8.B.1. Designing models of application-based problems by developing and solving systems of linear equations | Text/Teaching Materials: Glencoe Algebra I, Section 7-1 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: system of equations, consistent, inconsistent, independent, dependent |  |  |
| 3 days | II-3 <br> Solving for $x$ and $y$ <br> Four graphs | AlgI.8.b. Solve systems of linear equations in two variables algebraically. <br> AlgI.8.B.1. Designing models of application-based problems by developing and solving systems of linear equations | Text/Teaching Materials: Glencoe Algebra I, Section 7-2, 7-3, 7-4 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: substitution, elimination |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components (Pacing - what) | Resources/ Activities <br> (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | Mapping Comments (What works what needs adjustment) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ Nine <br> Weeks <br> 1 day | II-3 <br> Solving for $x$ and $y$ <br> Four graphs | AlgI.8.c. Solve systems of linear inequalities in two variables graphically. <br> AlgI.8.B.2. Designing models of application-based problems by developing and solving systems of linear inequalities | Text/Teaching Materials: Glencoe Algebra I, Section 7-5 <br> Additional Resources: <br> http://www.swgeorgia.resa.k12.ga.us/Math.html <br> Vocabulary: system of inequalities |  |  |
| 1 day |  | AlgI.1.c. Simplify numerical expressions involving radical form and decimal approximations using properties of real numbers. | Text/Teaching Materials: Glencoe Algebra I, Section 11-1, 11-2 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: radical expression, radicand, rationalizing the denominator, conjugates |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities <br> (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing - how well) | ```Mapping Comments (What works what needs adjustment)``` |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ Nine <br> Weeks <br> 1 day | IV-2 <br> Radicals <br> Lines may <br> be graphed <br> Formulas will be given | AlgI.7.B.3.c. Formulating the design of application-based problems by developing and solving equations including those involving distance <br> AlgI.10.a. Calculate length of a line segment when given coordinates of its endpoints on the Cartesian plane. <br> AlgI.10.B.1. Deriving distance formula for line segments | Text/Teaching Materials: Glencoe Algebra I, Section 11-5 <br> Vocabulary: distance formula |  |  |
| 1 day | IV-2 <br> Lines may be graphed <br> Formulas will be given | AlgI.10.b. Calculate midpoint of a line segment when given coordinates of its endpoints on the Cartesian plane. <br> AlgI.10.B.2. Deriving midpoint formula for line segments | Text/Teaching Materials: Glencoe Algebra I, Page 196 <br> Vocabulary: midpoint formula |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities <br> (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing - how well) |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ Nine <br> Weeks <br> 2 days | VII-2 <br> Formulas will be given <br> Diagrams <br> Word problems radicals | AlgI.10.B.4. Utilizing the Pythagorean Theorem to solve application-based problems | Text/Teaching Materials: Glencoe Algebra I, Section 11-4 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: Pythagorean Theorem, hypotenuse, legs, Pythagorean triple, corollary |  |  |
| 2 days | VII-6 <br> Both AND <br> and OR | AlgI.15.a. Calculate probabilities given data in lists. | Text/Teaching Materials: Glencoe Algebra I, Section 2-6 <br> Vocabulary: probability, simple event, sample space, equally likely, odds |  |  |
| 1 day |  | AlgI.15.b. Calculate probabilities given data in graphs. <br> AlgI.15.B.2. Comparing theoretical and experimental probabilities for data in graphs | Text/Teaching Materials: Glencoe Algebra I, Section 14-5 <br> Vocabulary: theoretical probability, experimental probability, relative frequency, empirical study, simulation |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE Correlations | Standards/ Components (Pacing - what) | Resources/ Activities <br> (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | $\begin{aligned} & \text { Mapping } \\ & \text { Comments (What } \\ & \text { works what needs } \\ & \text { adjustment) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ Nine <br> Weeks <br> 1 day | IV-1 <br> Drawings | AlgI.11.a. Solve problems algebraically involving area and perimeter of a polygon. <br> AlgI.11.B.1. Applying area formulas to solve applicationbased problems | Text/Teaching Materials: AHSGE Student Review Guide Pages 167 176 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html |  |  |
| 1 day | IV-1 <br> Pi will be 3.14 <br> Left in terms of Pi | AlgI.11.b. Solve problems algebraically involving area and circumference of a circle. AlgI.11.B.1. Applying area formulas to solve applicationbased problems | Text/Teaching Materials: AHSGE Student Review Guide Pages 177-180 Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: center, radius, diameter, Pi |  |  |
| 1 day | IV-1 <br> Volume or surface area <br> Formulas will be given | AlgI.11.c. Solve problems algebraically involving volume and surface area of right circular cylinders. <br> AlgI.11.B.2. Applying volume formulas to solve applicationbased problems | Text/Teaching Materials: AHSGE Student Review Guide Pages 187-194 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html <br> Vocabulary: height |  |  |


| Time Period (Pacing $-\quad$ when) | AHSGE <br> Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | ```Mapping Comments (What works what needs adjustment)``` |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ Nine <br> Weeks <br> 1 day | IV-1 <br> Volume or surface area Rectangular prisms Formulas will be given | AlgI.11.d. Solve problems algebraically involving volume and surface area of right rectangular prisms. AlgI.11.B.2. Applying volume formulas to solve applicationbased problems | Text/Teaching Materials: AHSGE Student Review Guide Pages 187-194 <br> Additional Resources: <br> http://www.sw- <br> georgia.resa.k12.ga.us/Math.html |  |  |
| 1 day |  | AlgI.12.a. Compare various methods of data reporting, including scatter plots to make inferences or predictions. <br> AlgI.12.B.1. Determining effects of linear transformations of data AlgI.12.B.2. Determining effects of outliers <br> AlgI.12.B. 3 Critiquing the design of a survey <br> AlgI.14. Use a scatter plot and its line of best fit or a specific line graph to determine the correlation existing between two sets of data, including positive, negative, or no correlation. | Text/Teaching Materials: Glencoe Algebra I, Section 5-7 <br> Vocabulary: scatter plot, positive correlation, negative correlation, line of fit, best-fit-line |  |  |


| Time Period <br> (Pacing <br> when) | AHSGE Correlati ons | Standards/ Components (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing how well) | Mapping Comments (What works what needs adjustment) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ <br> Nine <br> Weeks <br> 1 day |  | AlgI.12.b. Compare various methods of data reporting, including stem-and-leaf plots to make inferences or predictions. <br> AlgI.12.B.1. Determining effects of linear transformations of data <br> AlgI.12.B.2. Determining effects of outliers AlgI.12.B. 3 Critiquing the design of a survey | Text/Teaching Materials: Glencoe Algebra I, Section 25 <br> Vocabulary: line plot, frequency, stem-and-leaf plot, measures of central tendency |  |  |
| 1 day |  | AlgI.12.c. Compare various methods of data reporting, including histograms to make inferences or predictions. <br> AlgI.12.B.1. Determining effects of linear transformations of data <br> AlgI.12.B.2. Determining effects of outliers AlgI.12.B. 3 Critiquing the design of a survey | Text/Teaching Materials: Glencoe Algebra I, Section 13-3 <br> Vocabulary: histogram, frequency table, measurement classes |  |  |
| 1 day |  | AlgI.12.d. Compare various methods of data reporting, including box-and-whisker plots to make inferences or predictions. <br> AlgI.12.B.1. Determining effects of linear transformations of data <br> AlgI.12.B.2. Determining effects of outliers AlgI.12.B. 3 Critiquing the design of a survey | Text/Teaching Materials: Glencoe Algebra I, Section 13-5 <br> Vocabulary: box-and-whisker plot, extreme values |  |  |


| Time Period <br> (Pacing <br> when) | AHSGE Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities <br> (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing - how well) | Mapping Comments (What works what needs adjustment) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ <br> Nine <br> Weeks <br> 1 day |  | AlgI.12.e. Compare various methods of data reporting, including line graphs to make inferences or predictions. AlgI.12.B.1. Determining effects of linear transformations of data <br> AlgI.12.B.2. Determining effects of outliers <br> AlgI.12.B. 3 Critiquing the design of a survey | Text/Teaching Materials: Glencoe Algebra I, Section 2-5 |  |  |
| 2 days | VII-5 <br> Mean <br> Decimal <br> Frequency | AlgI.13. Identify characteristics of a data set, including numerical or categorical and univariate or bivariate. <br> AlgI.13.B. Analyze data using mean, median, and mode | Text/Teaching <br> Materials: Glencoe <br> Algebra I, Section 2-5 |  |  |
| 2 days | VII-7 <br> Diagrams may be used Verbal descriptions | AlgI.7.B.3.a. Formulating the design of applicationbased problems by developing and solving equations including those involving direct variation | Text/Teaching Materials: Glencoe Algebra I, Section 5-2 Vocabulary: direct variation, constant of variation, family of graphs, parent graphs |  |  |


| Time Period <br> (Pacing <br> when) | AHSGE Correlations | Standards/ Components <br> (Pacing - what) | Resources/ Activities (Pacing - how) <br> Curricular Alignment | Date of Common Formative Assessment (Pacing - how well) | Mapping Comments (What works what needs adjustment) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $2^{\text {nd }}$ <br> Nine Weeks <br> 1 day |  | AlgI.7.B.3.b. Formulating the design of applicationbased problems by developing and solving equations including those involving inverse variation | Text/Teaching Materials: Glencoe Algebra I, Section 12-1 <br> Vocabulary: inverse variation |  |  |
| 2 days | VII-8 <br> Word problems $\mathrm{d}=\mathrm{rt}$ <br> Consecutive integers | AlgI.7.B.3.d. Formulating the design of applicationbased problems by developing and solving equations including those involving uniform motion AlgI.7.B.3.e. Formulating the design of applicationbased problems by developing and solving equations including those involving mixture | Text/Teaching Materials: Glencoe Algebra I, Section 3-9 <br> Vocabulary: weighted average, mixture problem, uniform motion problem |  |  |

