

Math Department Curriculum Map Template, 2018-19

Subject: Algebra I (Algebra Bs, Algebra B Core)

Textbook: Emathinstruction.com, McGraw Hill 2018 edition

CC Algebra 1 Regents Examination Breakdown:

- Statistics - 10%, Numbers, Operations, Properties - 6%, Rate - 3%, Powers - 2%
- Equations and Inequalities - 25%
- Functions - 25%
- Polynomials - 10%, Quadratics - 10%, Systems - 9%

Marking Periods	Unit Title (Big Idea/Major Focus)	Topics/Skills	Evidence of Learning (Assessments)	Resources (texts, online tools, etc.)
<p align="center">Marking Period 1</p>	<p>1 - Building blocks of Algebra</p> <p>Enduring Understanding:</p> <ul style="list-style-type: none"> • There is meaning to the structure of an expression. • Different number sets may be more appropriate than others given the context of a situation. • The product of two irrational numbers is NOT always irrational. <p>Essential Questions:</p> <ul style="list-style-type: none"> • Is a number just a number? • How do we use the properties of real numbers to manipulate expressions? • How do we translate english into mathematics - and why would we do it? 	<p><u>Real Numbers</u></p> <ul style="list-style-type: none"> • Classifying Real Numbers (Rational vs. Irrational and the Real Number System) • Properties of Real Numbers (commutative, associative, distributive, zero product, inverses, identities, properties of equality) <p><u>Variables and Expressions</u> (algebraic and verbal representations)</p> <ul style="list-style-type: none"> • Evaluating expressions <ul style="list-style-type: none"> ◦ Order of operations ◦ Substitution ◦ Using the graphing calculator • Simplifying expressions - combining like terms • Translating English to Algebraic Expressions and vice versa <p><u>*Rates</u></p> <ul style="list-style-type: none"> • Conversions, speed, using rate <p>Vocabulary: Commutative, Associative, Distributive, Zero product, additive/multiplicative identity, additive/multiplicative inverse, simplify, evaluate, combine, variable, expression, equation, coefficient, exponent, PEMDAS, reciprocal, substitution, more than, less than, equivalence, structure, rate, proportion,</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Pre-Assessment Check <input type="checkbox"/> Performance Tasks <input type="checkbox"/> Quizzes <input type="checkbox"/> Castle Learning <input type="checkbox"/> Exit Tickets <input type="checkbox"/> Do Nows <input type="checkbox"/> Class Discussion <input type="checkbox"/> Daily Handouts <input type="checkbox"/> Unit Review and Re-engagement Activities <input type="checkbox"/> Unit Exam 	<p>EMathinstruction.com Unit #1 McGraw Hill 2018 - Chapter 0, Chapter 1</p> <ul style="list-style-type: none"> • Jmap.org • Mathbits.com • Engageny.org • Bigideasmath.com • Problem Attic • Kuta Software • Castle Learning • Delta Math
	<p>2 - One Variable Equations and Inequalities</p> <p>Enduring Understanding:</p> <ul style="list-style-type: none"> • A solution set makes an equation or inequality true • Equations or inequalities can be represented in multiple and equivalent ways <p>Essential Questions:</p> <ul style="list-style-type: none"> • Is an equation always true? • What are the similarities and differences of equations and inequalities? • Can the solution to an equation be something other than a number? • How can expressions, equations and inequalities be transformed to find solutions? 	<p><u>Equations in one variable</u> (algebraic and verbal representations)</p> <ul style="list-style-type: none"> • Solving Equations in one variable <ul style="list-style-type: none"> ◦ Two-step, multi-step (and checking solutions) ◦ Fractions/Decimals (and checking solutions) ◦ Variables on both sides (and checking solutions) ◦ Alternative Solutions (infinite and no solution) ◦ Literal Equations ◦ Translating English to Algebraic equations and vice versa <p><u>Inequalities in one variable</u></p> <ul style="list-style-type: none"> • Comparing equations to inequalities (one solution vs. infinite) • Express solution set of inequalities AND compound inequalities <ul style="list-style-type: none"> ◦ Algebraically, Verbally ◦ Graphically/number line (open vs. closed circle) ◦ set builder/*interval notation • Solving inequalities <ul style="list-style-type: none"> ◦ Comparing solving equations to inequalities ◦ Solving multi-step inequalities (and checking possible solution) ◦ Variables on both sides (and checking possible solutions) 	<ul style="list-style-type: none"> <input type="checkbox"/> Pre-Assessment Check <input type="checkbox"/> Performance Tasks <input type="checkbox"/> Quizzes <input type="checkbox"/> Castle Learning <input type="checkbox"/> Exit Tickets <input type="checkbox"/> Do Nows <input type="checkbox"/> Class Discussion <input type="checkbox"/> Daily Handouts <input type="checkbox"/> Unit Review and Re-engagement Activities <input type="checkbox"/> Unit Exam 	<p>EMathinstruction.com Unit #2 McGraw Hill 2018 - Chapter 2, Chapter 5</p> <p>Online Resources:</p> <ul style="list-style-type: none"> • Jmap.org • Mathbits.com • Engageny.org • Bigideasmath.com • Problem Attic • Kuta Software • Castle Learning • Delta Math

		<ul style="list-style-type: none"> ○ Translating English to Algebraic equations and vice versa <p>Vocabulary: <i>sum, difference, product, quotient, total, is less than, is greater than, equal to, not equal to, maximum, minimum, at least, at most, included, excluded, solution, infinite solutions, set builder notation, interval, interval notation, manipulation, isolate</i></p>		
	<p>3 - Functions</p> <p>Enduring Understanding:</p> <ul style="list-style-type: none"> ● Functions can be represented in multiple, equivalent ways ● Function rules describe the quantitative relationship between variables <p>Essential Questions:</p> <ul style="list-style-type: none"> ● How do we measure change? ● Are all equations functions? Can you solve a function? ● Can an input have multiple outputs? 	<p><u>Relations</u></p> <ul style="list-style-type: none"> ● Define a relation ● Identify and state Domain and Range from a graph, set, table, or mapping using set-builder notation (<i>*interval notation</i>) ● Rate of Change <ul style="list-style-type: none"> ○ Calculate the rate of change given a rule, graph, table ○ Comparing rates given table, rule, or graph <p><u>Functions</u></p> <ul style="list-style-type: none"> ● Define a function ● Determine if a relation is a function from a table, rule (emphasize $y=$ in graphing calculator), graph (vertical line test), set, mapping diagrams ● Matching and comparing between different representations. ● Function Notation and Evaluate a function algebraically, graphically and from a table or set (linear/absolute value/exponential/quadratic/square root). ● Interpreting a graph in context of a real world situation <ul style="list-style-type: none"> ○ Increasing, decreasing, rate of change ● Determine most appropriate domain from real number system given real word context. <p>Vocabulary: <i>relation, functions, input, output, domain, range, vertical line test, coordinate plane, linear, absolute value, exponential, quadratic, square root, function notation, mapping diagram,</i></p>	<ul style="list-style-type: none"> <input type="checkbox"/> Pre-Assessment Check <input type="checkbox"/> Performance Tasks <input type="checkbox"/> Quizzes <input type="checkbox"/> Castle Learning <input type="checkbox"/> Exit Tickets <input type="checkbox"/> Do Nows <input type="checkbox"/> Class Discussion <input type="checkbox"/> Daily Handouts <input type="checkbox"/> Unit Review and Re-engagement Activities <input type="checkbox"/> Unit Exam 	<p>EMathinstruction.com Unit #3 McGraw Hill 2018 - Chapter 1, Chapter 3</p> <ul style="list-style-type: none"> ● Jmap.org ● Mathbits.com ● Engageny.org ● Bigideasmath.com ● Problem Attic ● Kuta Software ● Castle Learning ● Delta Math
<p>Quarterly Exam #1 (Cumulative)</p>				
<p>Marking Period 2</p>	<p>4 - Linear Functions and Inequalities</p> <p>Enduring Understanding:</p> <ul style="list-style-type: none"> ● A constant rate of change distinguishes a linear function from other functions. ● Linear functions can be used to make predictions in real world situations. <p>Essential Questions:</p> <ul style="list-style-type: none"> ● Why are lines straight? ● Where do lines begin? ● What real world situations can be modeled by linear functions? 	<p><u>Linear Functions</u></p> <ul style="list-style-type: none"> ● Define linear function and identify the features of the function for standard and slope- intercept forms. ● Graph a linear function (emphasize $y=$ in graphing calculator) <ul style="list-style-type: none"> ○ Given rule (slope-intercept form and standard form - converting to slope-intercept), table of values ○ Horizontal and Vertical Lines ● Determine the equation of a line in slope-intercept form <ul style="list-style-type: none"> ○ Given m and b, m and a point, two points, a graph, a table, equation in standard form, basic verbal representation ● Matching and comparing between different representations of linear functions. ● Create a linear function rule given a word problem. <ul style="list-style-type: none"> ○ interpret the meaning of the components in the context of the problem. ○ Solve for indicated inputs or outputs algebraically, graphically, or using a table. ● Linear Regression 	<ul style="list-style-type: none"> <input type="checkbox"/> Pre-Assessment Check <input type="checkbox"/> Performance Tasks <input type="checkbox"/> Quizzes <input type="checkbox"/> Castle Learning <input type="checkbox"/> Exit Tickets <input type="checkbox"/> Do Nows <input type="checkbox"/> Class Discussion <input type="checkbox"/> Daily Handouts <input type="checkbox"/> Unit Review and Re-engagement Activities <input type="checkbox"/> Unit Exam 	<p>EMathinstruction.com Unit #4 & Unit #10 McGraw Hill 2018 - Chapter 4, Chapter 5</p> <ul style="list-style-type: none"> ● Jmap.org ● Mathbits.com ● Engageny.org ● Bigideasmath.com ● Problem Attic ● Kuta Software ● Castle Learning ● Delta Math

		<ul style="list-style-type: none"> ○ Create and Interpret Scatter plots <ul style="list-style-type: none"> ■ Discuss causation vs. correlation ○ Use the graphing calculator to determine equation of the line of best fit using linear regression. Identify and interpret correlation coefficient(Stat-Diagnostics). ○ *Residual plots ○ Use regression to determine equation of a line given two points or a table. ● * Introduction to Sequences <ul style="list-style-type: none"> ○ Domain of sequences ○ Sequence notation (include a_n and $f(n)$) ○ Recursive Sequences ○ Arithmetic Sequences <ul style="list-style-type: none"> ■ Comparing the equivalent linear function rule to an arithmetic sequence in explicit form. ■ Determine the indicated term using the arithmetic sequence. <p><u>Linear Inequalities</u></p> <ul style="list-style-type: none"> ● Graph a linear inequality on the coordinate plane. ● Determine if a point is a solution to the inequality graphically and algebraically. ● Create a linear inequality from a word problem and state a possible solution. <p>Vocabulary: Line, Point, Slope, constant rate of change, initial value, y-intercept, x-intercept, dashed line, solid line, solution region, scatter plots, linear regression, correlation, correlation coefficient, strong, causal, Sequence, Recursive, Arithmetic, common difference, term,</p>		
	<p>5 - Systems of Linear Equations and Inequalities</p> <p>Enduring Understanding:</p> <ul style="list-style-type: none"> ● Systems of linear equations can be used to model problems when there are multiple variables. ● Systems of equations can be solved by graphing, substitution, or eliminating a variable. <p>Essential Questions:</p> <ul style="list-style-type: none"> ● What does the number of solutions (none, one or infinite) of a system of linear equations represent? ● What are the advantages and disadvantages of solving a system of linear equations graphically versus algebraically? 	<p><u>Systems of Linear Equations</u></p> <ul style="list-style-type: none"> ● Define a system of equations and when we use them (solving for more than one unknown value) and interpreting the meaning of the solution. ● Identify types of linear systems: consistent (dependent -infinite solution vs. independent -unique solution) and inconsistent (no solution) ● Solve the system graphically and state the solution (intersection point) ● Solve the system from a table ● Solve the system algebraically (and checking) <ul style="list-style-type: none"> ○ Substitution ○ Elimination by addition ● Use the structure of the system to determine the best method for solving. ● Create a system of equations given a real world situation and solve. <ul style="list-style-type: none"> ○ Interpret the solution in the context of the problem. <p><u>Systems of Linear Inequalities</u></p> <ul style="list-style-type: none"> ● Solve a system of linear inequalities by graphing. Identify and indicate the solution region with an "S" or provided variable. ● Create a system of linear inequalities given a verbal situation and state a possible solution. <p>Vocabulary: System of equations, consistent, inconsistent, dependent, independent, Elimination, simultaneous, coincide, parallel lines, intersecting, at least, at most, the same as, viable</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Pre-Assessment Check <input type="checkbox"/> Performance Tasks <input type="checkbox"/> Quizzes <input type="checkbox"/> Castle Learning <input type="checkbox"/> Exit Tickets <input type="checkbox"/> Do Nows <input type="checkbox"/> Class Discussion <input type="checkbox"/> Daily Handouts <input type="checkbox"/> Unit Review and Re-engagement Activities <input type="checkbox"/> Unit Exam 	<p>EMathinstruction.com Unit #5 McGraw Hill 2018 - Chapter 6</p> <ul style="list-style-type: none"> ● Jmap.org ● Mathbits.com ● Engageny.org ● Bigideasmath.com ● Problem Attic ● Kuta Software ● Castle Learning ● Delta Math

Marking Period 3

6 - Exponents & Exponential Functions

Enduring Understanding:

- A constant multiplier distinguishes an exponential function from other functions.
- Exponential functions can be used to make predictions in real world situations.

Essential Questions:

- What is the difference between a linear and an exponential function? Is rate still constant?
- Is it all about the base?

Rules of Exponents

- Simplify expressions involving exponents
- Include 0 and negative exponents

**Scientific Notation*

Exponential Functions

- Define and identify the features of an exponential function (constant multiplier, varying rate of change, initial value/y-intercept, asymptote*)
- Compare Linear vs. Exponential functions given multiple representations. (focus on constant rate vs. constant multiplier)
- Graph an exponential function.
- Write an exponential function given an exponential graph or table of values.
- Interpret or create an exponential equation in the context of a real world situation (Starting amount/y-intercept and the base/multiplier).
 - Use the multiplier to identify if the function is increasing or decreasing.
- Evaluate the exponential function from a given situation with solutions that need to be rounded to nearest integer, tenth, hundredth, thousandth.

Exponential Regression

- Create and Interpret Scatter plots
- Use graphing calculator to determine equation of the exponential function that best fits the given data using exponential regression. Identify and interpret correlation coefficient.
- Use regression to determine the exponential equation of the given two points or a table.
- Compare Linear vs. Exponential correlation coefficients to determine the better fit for the data.

**Percent increase vs. decrease review*

- Using the $(1 +/- r)$ multiplier.
- Converting % to a decimal and vice versa.

Exponential Growth and Decay

- Interpret the meaning of the components of the exponential growth/decay equation in the context of the problem.
 - Distinguish between the multiplier/factor and the rate.
- Given the verbal situation create the exponential growth/decay equation (emphasis on calculating the base involving the percentage of increase or decrease $(b = 1 +/- r)$).
- Determine the percent increase/decrease given an exponential function rule

**Geometric Sequences*

- Comparing the equivalent exponential function rule to an geometric sequence in explicit form.
- Determine the indicated term using the geometric sequence.
- Recursive geometric sequences

Vocabulary: multiplier, base, exponent, power, Growth factor, growth rate, decay, percent increase, percent decrease, common ratio, geometric sequence, asymptote, rounding, decimal, geometric, recursive, principal, rate, regression, correlation

- Pre-Assessment Check
- Performance Tasks
- Quizzes
- Castle Learning
- Exit Tickets
- Do Nows
- Class Discussion
- Daily Handouts
- Unit Review and Re-engagement Activities
- Unit Exam

EMathinstruction.com Unit #6
McGraw Hill 2018 - Chapter 7

- Jmap.org
- Mathbits.com
- Engageny.org
- Bigideasmath.com
- Problem Attic
- Kuta Software
- Castle Learning
- Delta Math

7- Polynomials

Enduring Understanding:

- The properties of real numbers apply to polynomials.
- Factoring is the undoing of distribution
- The structure of a quadratic expression influences the factoring pathway.

Polynomials

- Introduction to Polynomials: identify monomials, polynomials, and degrees.
- Combining (add/subtract) polynomials.
 - Perimeter models
 - **Sum of consecutive integers*

- Pre-Assessment Check
- Performance Tasks
- Quizzes
- Castle Learning
- Exit Tickets
- Do Nows
- Class Discussion
- Daily Handouts

EMathinstruction.com Unit #8
McGraw Hill 2018 - Chapter 8

- Jmap.org
- Mathbits.com
- Engageny.org
- Bigideasmath.com
- Problem Attic

	<p>Essential Questions:</p> <ul style="list-style-type: none"> • What is the opposite of distribution? • Is a factor always a number? 	<ul style="list-style-type: none"> • Multiply/Divide a polynomial by a monomial. • Multiply two polynomials (binomial by binomial, squaring binomial, binomial by trinomial) <ul style="list-style-type: none"> ◦ Area models ◦ <i>*Product of consecutive Integers</i> ◦ Manipulating quadratic expressions that mimic the forms of quadratic function. (vertex to standard, factored to standard) • Recognize and factor monomials (GCF) out of a polynomial. <p><u>Factoring Quadratic Expressions</u></p> <ul style="list-style-type: none"> • Define a quadratic expression as it related to the function in standard form (a, b and c). • Factor Quadratic trinomials (a=1, a>1) → (Factoring by grouping, borrow/payback, guess and check) <ul style="list-style-type: none"> ◦ Manipulating quadratic expressions that mimic the forms of quadratic function (standard to factored). • Difference of perfect squares (factoring) <ul style="list-style-type: none"> ◦ Apply to higher degree expressions. • <i>*Factor a polynomial with 4 terms using the grouping method.</i> • Factor Polynomial expressions completely <p>Vocabulary: Polynomial, degree, standard form, monomial, binomial, trinomial, area, perimeter, quadratic, cubic, factoring, perfect squares, conjugate pairs, consecutive integers, perfect squares, greatest common factor, coefficient, variable, like terms, power, exponent, base, constant,</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Unit Review and Re-engagement Activities <input type="checkbox"/> Unit Exam 	<ul style="list-style-type: none"> • Kuta Software • Castle Learning • Delta Math
	<p>8 - Quadratic Functions - EVERYTHING</p> <p>Enduring Understanding:</p> <ul style="list-style-type: none"> • The Structure of a Quadratic Equation provides insights about its key characteristics and how to find its solutions. • Applying Zero Product Property to higher order polynomials in factored form is essential to determining the roots. <p>Essential Questions :</p> <ul style="list-style-type: none"> • How many solutions are there to a quadratic function? • What does a solution represent? • How do we determine the best method for obtaining a solution? 	<p><u>Quadratic Functions</u></p> <ul style="list-style-type: none"> • Define Quadratic Function and Identify the features of a parabola. (vertex/max/min/turning point, axis of symmetry, roots/solutions/zeros/x-intercepts, y - intercept, open upward/downward, intervals of increasing/decreasing). <ul style="list-style-type: none"> ◦ <i>*Identify the zeros of a cubic polynomial</i> • Introduce the 3 major forms of a quadratic function (standard, factored, vertex) and the features that can be determined from each form • Determine the axis of symmetry and vertex of a quadratic function when it is in standard form (Identify as a minimum or maximum) algebraically • Graph a parabola when the equation is in standard form manually and using the graphing calculator to identify the critical points/features. <ul style="list-style-type: none"> ◦ Solve graphically (one solution (double-root), two solutions, no solution) • Quadratic Modeling <ul style="list-style-type: none"> ◦ Projectile Examples 	<ul style="list-style-type: none"> <input type="checkbox"/> Pre-Assessment Check <input type="checkbox"/> Performance Tasks <input type="checkbox"/> Quizzes <input type="checkbox"/> Castle Learning <input type="checkbox"/> Exit Tickets <input type="checkbox"/> Do Nows <input type="checkbox"/> Class Discussion <input type="checkbox"/> Daily Handouts <input type="checkbox"/> Unit Review and Re-engagement Activities <input type="checkbox"/> Unit Exam 	<p>EMathinstruction.com Unit #8, 9 McGraw Hill 2018 - Chapter 9</p> <ul style="list-style-type: none"> • Jmap.org • Mathbits.com • Engageny.org • Bigideasmath.com • Problem Attic • Kuta Software • Castle Learning • Delta Math

		<ul style="list-style-type: none"> Graph a parabola in factored form to check that it is equivalent to the standard form (use table to confirm) Solve quadratics algebraically <ul style="list-style-type: none"> Factoring (zero product property), square roots. Completing the square (standard to vertex). <ul style="list-style-type: none"> Express irrational radicals in simplest radical form Leave irrational solutions in simplest radical form AND as rounded decimal. Quadratic formula. <ul style="list-style-type: none"> Express irrational radicals in simplest radical form Leave irrational solutions in simplest radical form AND as rounded decimal. Determine best method to use based upon structure of given quadratic equation. <ul style="list-style-type: none"> <i>*analyzing roots using the discriminant.</i> <i>* Solve Linear/ Quadratic Systems algebraically and graphically.</i> <p>Vocabulary: Quadratic, parabola, standard form, factored form, vertex form, degree, solutions, roots, x-intercepts, zeros, axis of symmetry, vertex, maximum, minimum, turning point, rational, irrational, cubic, projectile, discriminant, radical, upward, downward</p>		
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Quarterly Exam #3

<p style="text-align: center;">Marking Period 4</p>	<p>9 - Application of Functions</p> <p>Enduring Understanding:</p> <ul style="list-style-type: none"> Functions are not always consistent through the overall domain. Properties of inequalities can be applied to graph piece-wise functions. Regardless of function type, the transformations can be determined from the given structure. 	<ul style="list-style-type: none"> Piecewise functions <ul style="list-style-type: none"> Evaluate a piecewise function for given input .Given an equation, graph the piecewise function. Given the piecewise function, create a corresponding equation. <i>*Step-Functions</i> Real world application examples Transformations on functions <ul style="list-style-type: none"> Graph a function after given transformation Determine the transformations of any function from its parent given the function rule and vice versa. <ul style="list-style-type: none"> For specific function types and in terms of just f(x) From an algebraic or graphical representations <i>*Identify the vertex of a quadratic when written in vertex form (as a means of the transformation)</i> <ul style="list-style-type: none"> Use completing the square to 	<ul style="list-style-type: none"> <input type="checkbox"/> Pre-Assessment Check <input type="checkbox"/> Performance Tasks <input type="checkbox"/> Quizzes <input type="checkbox"/> Castle Learning <input type="checkbox"/> Exit Tickets <input type="checkbox"/> Do Nows <input type="checkbox"/> Class Discussion <input type="checkbox"/> Daily Handouts <input type="checkbox"/> Unit Review and Re-engagement Activities <input type="checkbox"/> Unit Exam 	<p>EMathinstruction.com Unit #11 McGraw Hill 2018 - Chapter 3, Chapter 9</p> <ul style="list-style-type: none"> Jmap.org Mathbits.com Engageny.org Bigideasmath.com Problem Attic Kuta Software Castle Learning Delta Math
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		<p style="text-align: center;"><i>write a quadratic in vertex form.</i></p> <ul style="list-style-type: none"> ○ <i>*Identify the transformations on the linear function $y=x$ when written in point-slope form.</i> <p>Vocabulary: Transformation, Horizontal shift(right/left), Vertical shift(up/down), Horizontal stretch(wider), Vertical stretch (narrower), Piecewise Functions, Step- Functions</p>		
	<p>10 - Statistics (3 weeks)</p> <p>Enduring Understanding:</p> <ul style="list-style-type: none"> ● Measures of Center are used to interpret univariate data ● Visual models illustrate the correlation of bivariate data <p>Essential Questions:</p> <ul style="list-style-type: none"> ● How do we interpret evidence in order to support arguments? 	<p>Univariate Data:</p> <ul style="list-style-type: none"> ● Construct and interpret dot plots and histograms <ul style="list-style-type: none"> ○ Discuss shape(skewed right/skewed left/ normal) ○ <i>*Choose the best model to display data</i> ● Students will be able to calculate the measures of central tendency (mean, mode, median) and measures of spread (range and standard deviation) from a set of data using the calculator. <ul style="list-style-type: none"> ○ Compare measures of central tendency and measures of spread for two different sets of data. ○ Discuss how outliers affect measures ● Construct and interpret box plots - (5 point summary on the calculator) - Students will be able to calculate the lower extreme, upper extreme, lower quartile, and upper quartile, interquartile range from a set of data. <p>Bi-Variate Data:</p> <ul style="list-style-type: none"> ● Construct and interpret two-way frequency tables <ul style="list-style-type: none"> ○ <i>*Discuss joint, marginal, conditional</i> <p>Vocabulary: Mean, Median, Mode, Range, Quartile, interquartile range, outlier, frequency, histogram, box-plot, spread, cumulative, univariate, bivariate,, standard deviation, two way frequency table</p>	<ul style="list-style-type: none"> <input type="checkbox"/> Pre-Assessment Check <input type="checkbox"/> Performance Tasks <input type="checkbox"/> Quizzes <input type="checkbox"/> Castle Learning <input type="checkbox"/> Exit Tickets <input type="checkbox"/> Do Nows <input type="checkbox"/> Class Discussion <input type="checkbox"/> Daily Handouts <input type="checkbox"/> Unit Review and Re-engagement Activities <input type="checkbox"/> Unit Exam 	<p>EMathinstruction.com Unit #10 McGraw Hill 2018 - Chapter 10</p> <ul style="list-style-type: none"> ● Jmap.org ● Mathbits.com ● Engageny.org ● Bigideasmath.com ● Problem Attic ● Kuta Software ● Castle Learning ● Delta Math
	<p>11- Calculator Strategies and Regents Review</p>	<ul style="list-style-type: none"> ● Calculator Techniques <ul style="list-style-type: none"> ○ Calculator reset, mode - stat-diagnostic ○ Storing values for x to evaluate an expression or find the solution to an equation (include irrational solutions from quadratic multiple choice questions) ○ Using “Y=” and the table of values to find equivalent expressions or functions ○ Finding intersection points on graphs (using the ZOOM feature) ○ Creating equations from a table or graph by using the regression feature <ul style="list-style-type: none"> ■ Store the given regression equation into the y= ○ Finding specific points on the table of values (TBLSET feature) ○ Use alpha Y= to represent a fraction ○ Alpha WINDOW for absolute value, ○ Checking factors using Y= and table of values ○ Reducing Fractions ○ Converting Decimals to equivalent 	<ul style="list-style-type: none"> <input type="checkbox"/> Pre-Assessment Check <input type="checkbox"/> Performance Tasks <input type="checkbox"/> Quizzes <input type="checkbox"/> Castle Learning <input type="checkbox"/> Exit Tickets <input type="checkbox"/> Do Nows <input type="checkbox"/> Class Discussion <input type="checkbox"/> Daily Handouts <input type="checkbox"/> Unit Review and Re-engagement Activities <input type="checkbox"/> Unit Exam 	<p>EMathinstruction.com McGraw Hill 2018</p> <ul style="list-style-type: none"> ● Jmap.org ● Mathbits.com ● Engageny.org ● Bigideasmath.com ● Problem Attic ● Kuta Software ● Castle Learning ● Delta Math

Math Department Curriculum Map Template, 2018-19

		<ul style="list-style-type: none">fraction (if rational)○ Checking solutions of equations/inequalities● Regents Test Prep		
Final Assessment: Algebra I Regents (10% of overall grade)				
Summer	Summer Assignment:			