

Mathematics for College Algebra (#1200710)

2022 – 2023 Course Description

Course Title:	Mathematics for College Algebra
Course Number:	1200710
Course Information:	<p>In Mathematics for College Algebra, instructional time will emphasize five areas:</p> <ol style="list-style-type: none">(1) developing fluency with the Laws of Exponents with numerical and algebraic expressions;(2) extending arithmetic operations with algebraic expressions to include rational and polynomial expressions;(3) solving one-variable exponential, logarithmic, radical and rational equations and interpreting the viability of solutions in real-world contexts;(4) modeling with and applying linear, quadratic, absolute value, exponential, logarithmic and piecewise functions and systems of linear equations and inequalities;(5) extending knowledge of functions to include inverse and composition. <p><i>All clarifications stated, whether general or specific to Mathematics for College Algebra, are expectations for instruction of that benchmark.</i></p> <p>Curricular content for all subjects must integrate critical-thinking, problem-solving, and workforce-literacy skills; communication, reading, and writing skills; mathematics skills; collaboration skills; contextual and applied-learning skills; technology-literacy skills; information and media-literacy skills; and civic-engagement skills.</p>
General Notes:	<p>Florida’s Benchmarks for Excellent Student Thinking (B.E.S.T.) Standards</p> <p>This course includes Florida’s B.E.S.T. ELA Expectations (EE) and Mathematical Thinking and Reasoning Standards (MTRs) for students. Florida educators should intentionally embed these standards within the content and their instruction as applicable. For guidance on the implementation of the EEs and MTRs, please visit https://www.cpalms.org/Standards/BEST_Standards.aspx and select the appropriate B.E.S.T. Standards package.</p> <p>English Language Development ELD Standards Special Notes Section:</p> <p>Teachers are required to provide listening, speaking, reading and writing instruction that allows English language learners (ELL) to communicate information, ideas and concepts for academic success in the content area of Mathematics. For the given level of English language proficiency and with visual, graphic, or interactive support, students will interact with grade level words, expressions, sentences and discourse to process or produce language necessary for academic success. The ELD standard should specify a relevant content area concept or topic of study chosen by curriculum developers and teachers which maximizes an ELL’s need for communication and social skills. To access an ELL supporting document which delineates</p>

performance definitions and descriptors, please click on the following link:
<https://cpalmsmediaproduct.blob.core.windows.net/uploads/docs/standards/eld/ma.pdf>

Florida’s Benchmarks for Excellent Student Thinking (B.E.S.T.) Standards: 7 Mathematical Thinking and Reasoning Standards, 39 Mathematics Benchmarks, 6 English Language Arts Benchmarks and 1 English Language Development Benchmark

7 Mathematical Thinking and Reasoning Standards		Textbook Section
MA.K12.MTR.1.1:	<p>Mathematicians who participate in effortful learning both individually and with others:</p> <ul style="list-style-type: none"> ● Analyze the problem in a way that makes sense given the task. ● Ask questions that will help with solving the task. ● Build perseverance by modifying methods as needed while solving a challenging task. ● Stay engaged and maintain a positive mindset when working to solve tasks. ● Help and support each other when attempting a new method or approach. <p>Clarifications: Teachers who encourage students to participate actively in effortful learning both individually and with others:</p> <ul style="list-style-type: none"> ● Cultivate a community of growth mindset learners. ● Foster perseverance in students by choosing tasks that are challenging. ● Develop students’ ability to analyze and problem solve. ● Recognize students’ effort when solving challenging problems. 	Incorporated Throughout
MA.K12.MTR.2.1:	<p>Demonstrate understanding by representing problems in multiple ways. Mathematicians who demonstrate understanding by representing problems in multiple ways:</p> <ul style="list-style-type: none"> ● Build understanding through modeling and using manipulatives. ● Represent solutions to problems in multiple ways using objects, drawings, tables, graphs and equations. ● Progress from modeling problems with objects and drawings to using algorithms and equations. ● Express connections between concepts and representations. ● Choose a representation based on the given context or purpose. <p>Clarifications: Teachers who encourage students to demonstrate understanding by representing problems in multiple ways:</p> <ul style="list-style-type: none"> ● Help students make connections between concepts and representations. ● Provide opportunities for students to use manipulatives when investigating concepts. ● Guide students from concrete to pictorial to abstract representations as understanding progresses. 	Incorporated Throughout

	<ul style="list-style-type: none"> Show students that various representations can have different purposes and can be useful in different situations. 	
MA.K12.MTR.3.1:	<p>Complete tasks with mathematical fluency.</p> <p>Mathematicians who complete tasks with mathematical fluency:</p> <ul style="list-style-type: none"> Select efficient and appropriate methods for solving problems within the given context. Maintain flexibility and accuracy while performing procedures and mental calculations. Complete tasks accurately and with confidence. Adapt procedures to apply them to a new context. Use feedback to improve efficiency when performing calculations. <p>Clarifications:</p> <p>Teachers who encourage students to complete tasks with mathematical fluency:</p> <ul style="list-style-type: none"> Provide students with the flexibility to solve problems by selecting a procedure that allows them to solve efficiently and accurately. Offer multiple opportunities for students to practice efficient and generalizable methods. Provide opportunities for students to reflect on the method they used and determine if a more efficient method could have been used. 	Incorporated Throughout
MA.K12.MTR.4.1:	<p>Engage in discussions that reflect on the mathematical thinking of self and others.</p> <p>Mathematicians who engage in discussions that reflect on the mathematical thinking of self and others:</p> <ul style="list-style-type: none"> Communicate mathematical ideas, vocabulary and methods effectively. Analyze the mathematical thinking of others. Compare the efficiency of a method to those expressed by others. Recognize errors and suggest how to correctly solve the task. Justify results by explaining methods and processes. Construct possible arguments based on evidence. <p>Clarifications:</p> <p>Teachers who encourage students to engage in discussions that reflect on the mathematical thinking of self and others:</p> <ul style="list-style-type: none"> Establish a culture in which students ask questions of the teacher and their peers, and error is an opportunity for learning. Create opportunities for students to discuss their thinking with peers. Select, sequence and present student work to advance and deepen understanding of correct and increasingly efficient methods. Develop students' ability to justify methods and compare their responses to the responses of their peers. 	Incorporated Throughout

<p>MA.K12.MTR.5.1:</p>	<p>Use patterns and structure to help understand and connect mathematical concepts. Mathematicians who use patterns and structure to help understand and connect mathematical concepts:</p> <ul style="list-style-type: none"> ● Focus on relevant details within a problem. ● Create plans and procedures to logically order events, steps or ideas to solve problems. ● Decompose a complex problem into manageable parts. ● Relate previously learned concepts to new concepts. ● Look for similarities among problems. ● Connect solutions of problems to more complicated large-scale situations. <p>Clarifications: Teachers who encourage students to use patterns and structure to help understand and connect mathematical concepts:</p> <ul style="list-style-type: none"> ● Help students recognize the patterns in the world around them and connect these patterns to mathematical concepts. ● Support students to develop generalizations based on the similarities found among problems. ● Provide opportunities for students to create plans and procedures to solve problems. ● Develop students’ ability to construct relationships between their current understanding and more sophisticated ways of thinking. 	<p>Incorporated Throughout</p>
<p>MA.K12.MTR.6.1:</p>	<p>Assess the reasonableness of solutions. Mathematicians who assess the reasonableness of solutions:</p> <ul style="list-style-type: none"> ● Estimate to discover possible solutions. ● Use benchmark quantities to determine if a solution makes sense. ● Check calculations when solving problems. ● Verify possible solutions by explaining the methods used. ● Evaluate results based on the given context. <p>Clarifications: Teachers who encourage students to assess the reasonableness of solutions:</p> <ul style="list-style-type: none"> ● Have students estimate or predict solutions prior to solving. ● Prompt students to continually ask, “Does this solution make sense? How do you know?” ● Reinforce that students check their work as they progress within and after a task. ● Strengthen students’ ability to verify solutions through justifications. 	<p>Incorporated Throughout</p>
<p>MA.K12.MTR.7.1:</p>	<p>Apply mathematics to real-world contexts. Mathematicians who apply mathematics to real-world contexts:</p> <ul style="list-style-type: none"> ● Connect mathematical concepts to everyday experiences. ● Use models and methods to understand, represent and solve problems. ● Perform investigations to gather data or determine if a method is appropriate. • Redesign models and methods to improve accuracy or efficiency. 	<p>Incorporated Throughout</p>

	<p>Clarifications:</p> <p>Teachers who encourage students to apply mathematics to real-world contexts:</p> <ul style="list-style-type: none"> ● Provide opportunities for students to create models, both concrete and abstract, and perform investigations. ● Challenge students to question the accuracy of their models and methods. ● Support students as they validate conclusions by comparing them to the given situation. ● Indicate how various concepts can be applied to other disciplines. 	
39 B.E.S.T. Mathematics Benchmarks		
MA.912.AR.1.2:	<p>Rearrange equations or formulas to isolate a quantity of interest.</p> <p>Clarifications: <i>Clarification 1:</i> Instruction includes using formulas for temperature, perimeter, area and volume; using equations for linear (standard, slope-intercept and point-slope forms) and quadratic (standard, factored and vertex forms) functions. <i>Clarification 2:</i> Within the Mathematics for Data and Financial Literacy course, problem types focus on money and business.</p>	3.5, 4.5, 10.4 Supplement
MA.912.AR.1.3:	<p>Add, subtract and multiply polynomial expressions with rational number coefficients.</p> <p>Clarifications: <i>Clarification 1:</i> Instruction includes an understanding that when any of these operations are performed with polynomials the result is also a polynomial. <i>Clarification 2:</i> Within the Algebra 1 course, polynomial expressions are limited to 3 or fewer terms.</p>	5.2, 5.3
MA.912.AR.1.5:	<p>Divide polynomial expressions using long division, synthetic division or algebraic manipulation.</p>	5.4
MA.912.AR.1.9:	<p>Apply previous understanding of rational number operations to add, subtract, multiply and divide rational algebraic expressions.</p> <p>Clarifications: <i>Clarification 1:</i> Instruction includes the connection to fractions and common denominators.</p>	7.4, 7.3, 7.4
MA.912.AR.2.4:	<p>Given a table, equation or written description of a linear function, graph that function, and determine and interpret its key features.</p> <p>Clarifications: <i>Clarification 1:</i> Key features are limited to domain, range, intercepts and rate of change.</p>	4.2, 4.4, 4.5, Appendix H4 Ex. 4

	<p><i>Clarification 2:</i> Instruction includes the use of standard form, slope-intercept form and point-slope form.</p> <p><i>Clarification 3:</i> Instruction includes cases where one variable has a coefficient of zero.</p> <p><i>Clarification 4:</i> Instruction includes representing the domain and range with inequality notation, interval notation or set-builder notation.</p> <p><i>Clarification 5:</i> Within the Algebra 1 course, notations for domain and range are limited to inequality and set-builder notations.</p>	
MA.912.AR.2.5:	<p>Solve and graph mathematical and real-world problems that are modeled with linear functions. Interpret key features and determine constraints in terms of the context.</p> <p>Clarifications:</p> <p><i>Clarification 1:</i> Key features are limited to domain, range, intercepts and rate of change.</p> <p><i>Clarification 2:</i> Instruction includes the use of standard form, slope-intercept form and point-slope form.</p> <p><i>Clarification 3:</i> Instruction includes representing the domain, range and constraints with inequality notation, interval notation or set-builder notation.</p> <p><i>Clarification 4:</i> Within the Algebra 1 course, notations for domain, range and constraints are limited to inequality and set-builder.</p> <p><i>Clarification 5:</i> Within the Mathematics for Data and Financial Literacy course, problem types focus on money and business.</p>	4.2, 4.4, 4.5
MA.912.AR.3.7:	<p>Given a table, equation or written description of a quadratic function, graph that function, and determine and interpret its key features.</p> <p>Clarifications:</p> <p><i>Clarification 1:</i> Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; end behavior; vertex; and symmetry.</p> <p><i>Clarification 2:</i> Instruction includes the use of standard form, factored form and vertex form, and sketching a graph using the zeros and vertex.</p> <p><i>Clarification 3:</i> Instruction includes representing the domain and range with inequality notation, interval notation or set-builder notation.</p> <p><i>Clarification 4:</i> Within the Algebra 1 course, notations for domain and range are limited to inequality and set-builder.</p>	4.2, 10.4, Appendix H4 Ex. 2
MA.912.AR.3.8:	<p>Solve and graph mathematical and real-world problems that are modeled with quadratic functions. Interpret key features and determine constraints in terms of the context.</p> <p>Clarifications:</p> <p><i>Clarification 1:</i> Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; end behavior; vertex; and symmetry.</p>	10.1, 10.2, 10.3, 10.4, 10.5

	<p><i>Clarification 2:</i> Instruction includes the use of standard form, factored form and vertex form.</p> <p><i>Clarification 3:</i> Instruction includes representing the domain, range and constraints with inequality notation, interval notation or set-builder notation.</p> <p><i>Clarification 4:</i> Within the Algebra 1 course, notations for domain, range and constraints are limited to inequality and set-builder.</p>	
MA.912.AR.4.2:	Given a mathematical or real-world context, write and solve one-variable absolute value inequalities. Represent solutions algebraically or graphically.	3.7, Appendix H3 Ex. 5-9
MA.912.AR.4.4:	<p>Solve and graph mathematical and real-world problems that are modeled with absolute value functions. Interpret key features and determine constraints in terms of the context.</p> <p>Clarifications:</p> <p><i>Clarification 1:</i> Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; vertex; end behavior and symmetry.</p> <p><i>Clarification 2:</i> Instruction includes representing the domain, range and constraints with inequality notation, interval notation or set-builder notation.</p>	Supplement
MA.912.AR.5.2:	Solve one-variable equations involving logarithms or exponential expressions. Interpret solutions as viable in terms of the context and identify any extraneous solutions.	11.5, 11.6
MA.912.AR.5.4:	<p>Write an exponential function to represent a relationship between two quantities from a graph, a written description or a table of values within a mathematical or real-world context.</p> <p>Clarifications:</p> <p><i>Clarification 1:</i> Within the Algebra 1 course, exponential functions are limited to the forms $y = ab^{cx+d}$, where b is a whole number greater than 1 or a unit fraction, or $y = a(b^x)^c$, where $b > 1$.</p> <p><i>Clarification 2:</i> Within the Algebra 1 course, tables are limited to having successive nonnegative integer inputs so that the function may be determined by finding ratios between successive outputs.</p>	11.1, Supplement
MA.912.AR.5.6:	<p>Given a table, equation or written description of an exponential function, graph that function and determine its key features.</p> <p>Clarifications:</p> <p><i>Clarification 1:</i> Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; constant percent rate of change; end behavior and asymptotes.</p> <p><i>Clarification 2:</i> Instruction includes representing the domain and range with inequality notation, interval notation or set-builder notation.</p>	11.1

	<p><i>Clarification 3:</i> Within the Algebra 1 course, notations for domain and range are limited to inequality and set-builder.</p> <p><i>Clarification 4:</i> Within the Algebra 1 course, exponential functions are limited to the forms $y = ab^x$, where b is a whole number greater than 1 or a unit fraction or $y = a \log_b(x)$, where $b > 1$.</p>	
MA.912.AR.5.7:	<p>Solve and graph mathematical and real-world problems that are modeled with exponential functions. Interpret key features and determine constraints in terms of the context.</p> <p>Clarifications:</p> <p><i>Clarification 1:</i> Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; constant percent rate of change; end behavior and asymptotes.</p> <p><i>Clarification 2:</i> Instruction includes representing the domain, range and constraints with inequality notation, interval notation or set-builder notation.</p> <p><i>Clarification 3:</i> Instruction includes understanding that when the logarithm of the dependent variable is taken and graphed, the exponential function will be transformed into a linear function.</p> <p><i>Clarification 4:</i> Within the Mathematics for Data and Financial Literacy course, problem types focus on money and business.</p>	11.1, 11.6
MA.912.AR.5.8:	<p>Given a table, equation or written description of a logarithmic function, graph that function and determine its key features.</p> <p>Clarifications:</p> <p><i>Clarification 1:</i> Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; end behavior; and asymptotes.</p> <p><i>Clarification 2:</i> Instruction includes representing the domain and range inequality notation, interval notation or set-builder notation.</p>	11.3
MA.912.AR.5.9:	<p>Solve and graph mathematical and real-world problems that are modeled with logarithmic functions. Interpret key features and determine constraints in terms of the context.</p> <p>Clarifications:</p> <p><i>Clarification 1:</i> Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; end behavior; and asymptotes.</p> <p><i>Clarification 2:</i> Instruction includes representing the domain, range and constraints with inequality notation, interval notation or set-builder notation.</p>	11.3
MA.912.AR.7.1:	<p>Solve one-variable radical equations. Interpret solutions as viable in terms of context and identify any extraneous solutions.</p>	9.5

MA.912.AR.8.1:	<p>Write and solve one-variable rational equations. Interpret solutions as viable in terms of the context and identify any extraneous solutions.</p> <p>Clarifications: <i>Clarification 1:</i> Within the Algebra 2 course, numerators and denominators are limited to linear and quadratic expressions.</p>	7.5
MA.912.AR.9.4:	<p>Graph the solution set of a system of two-variable linear inequalities.</p> <p>Clarifications: <i>Clarification 1:</i> Instruction includes cases where one variable has a coefficient of zero. <i>Clarification 2:</i> Within the Algebra 1 course, the system is limited to two inequalities.</p>	8.6
MA.912.AR.9.6:	<p>Given a real-world context, represent constraints as systems of linear equations or inequalities. Interpret solutions to problems as viable or non-viable options.</p> <p>Clarifications: <i>Clarification 1:</i> Instruction focuses on analyzing a given function that models a real-world situation and writing constraints that are represented as linear equations or linear inequalities.</p>	8.1, 8.2, 8.6
MA.912.AR.9.10:	<p>Solve and graph mathematical and real-world problems that are modeled with piecewise functions. Interpret key features and determine constraints in terms of the context.</p> <p>Clarifications: <i>Clarification 1:</i> Key features are limited to domain, range, intercepts, asymptotes and end behavior. <i>Clarification 2:</i> Instruction includes representing the domain, range and constraints with inequality notation, interval notation or set-builder notation.</p>	4.3, Supplement
MA.912.F.1.1:	<p>Given an equation or graph that defines a function, determine the function type. Given an input-output table, determine a function type that could represent it.</p> <p>Clarifications: <i>Clarification 1:</i> Within the Algebra 1 course, functions represented as tables are limited to linear, quadratic and exponential. <i>Clarification 2:</i> Within the Algebra 1 course, functions represented as equations or graphs are limited to vertical or horizontal translations or reflections over the x-axis of the following parent functions:</p> $f(x) = x, f(x) = x^2, f(x) = x^3, f(x) = \sqrt{x}, f(x) = \sqrt[3]{x}, f(x) = x , f(x) = 2^x \text{ and } f(x) = \left(\frac{1}{2}\right)^x.$	Appendix B: pgs. A11-A12

MA.912.F.1.2:	<p>Given a function represented in function notation, evaluate the function for an input in its domain. For a real-world context, interpret the output.</p> <p>Clarifications: <i>Clarification 1:</i> Problems include simple functions in two-variables, such as $f(x,y)=3x-2y$. <i>Clarification 2:</i> Within the Algebra 1 course, functions are limited to one-variable such as $f(x)=3x$.</p>	<p>4.3, 9.1, 10.4, 11.1, 11.3, 11.4</p>
MA.912.F.1.3:	<p>Calculate and interpret the average rate of change of a real-world situation represented graphically, algebraically or in a table over a specified interval.</p> <p>Clarifications: <i>Clarification 1:</i> Instruction includes making the connection to determining the slope of a particular line segment.</p>	<p>Supplement</p>
MA.912.F.1.6:	<p>Compare key features of linear and nonlinear functions each represented algebraically, graphically, in tables or written descriptions.</p> <p>Clarifications: <i>Clarification 1:</i> Key features are limited to domain; range; intercepts; intervals where the function is increasing, decreasing, positive or negative; end behavior and asymptotes. <i>Clarification 2:</i> Within the Algebra 1 course, functions other than linear, quadratic or exponential must be represented graphically. <i>Clarification 3:</i> Within the Algebra 1 course, instruction includes verifying that a quantity increasing exponentially eventually exceeds a quantity increasing linearly or quadratically.</p>	<p>Supplement</p>
MA.912.F.2.1:	<p>Identify the effect on the graph or table of a given function after replacing $f(x)$ by $f(x)+k$, $kf(x)$, $f(kx)$ and $f(x+k)$ for specific values of k.</p> <p>Clarifications: <i>Clarification 1:</i> Within the Algebra 1 course, functions are limited to linear, quadratic and absolute value. <i>Clarification 2:</i> Instruction focuses on including positive and negative values for k.</p>	<p>11.1, Appendix B: pgs. A5-A9</p>
MA.912.F.2.2:	<p>Identify the effect on the graph of a given function of two or more transformations defined by adding a real number to the x- or y- values or multiplying the x- or y- values by a real number.</p>	<p>Appendix B: pgs. A7-A9</p>
MA.912.F.2.3:	<p>Given the graph or table of $f(x)$ and the graph or table of $f(x)+k$, $kf(x)$, $f(kx)$ and $f(x+k)$, state the type of transformation and find the value of the real number k.</p> <p>Clarifications: <i>Clarification 1:</i> Within the Algebra 1 course, functions are limited to linear, quadratic and absolute value.</p>	<p>Appendix B: pg. A7</p>

MA.912.F.2.4:	Given the graph or table of values of two or more transformations of a function, state the type of transformation and find the values of the real number that defines the transformation.	Appendix B: pg. A7-A9
MA.912.F.2.5:	Given a table, equation or graph that represents a function, create a corresponding table, equation or graph of the transformed function defined by adding a real number to the x - or y -values or multiplying the x - or y -values by a real number.	Supplement
MA.912.F.3.2:	Given a mathematical or real-world context, combine two or more functions, limited to linear, quadratic, exponential and polynomial, using arithmetic operations. When appropriate, include domain restrictions for the new function. Clarifications: <i>Clarification 1:</i> Instruction includes representing domain restrictions with inequality notation, interval notation or set-builder notation. <i>Clarification 2:</i> Within the Mathematics for Data and Financial Literacy course, problem types focus on money and business.	5.2, Appendix B: pg. A10, Supplement
MA.912.F.3.4:	Represent the composition of two functions algebraically or in a table. Determine the domain and range of the composite function.	11.2
MA.912.F.3.6:	Determine whether an inverse function exists by analyzing tables, graphs and equations.	11.2
MA.912.F.3.7:	Represent the inverse of a function algebraically, graphically or in a table. Use composition of functions to verify that one function is the inverse of the other. Clarifications: <i>Clarification 1:</i> Instruction includes the understanding that a logarithmic function is the inverse of an exponential function.	11.2
MA.912.NSO.1.1:	Extend previous understanding of the Laws of Exponents to include rational exponents. Apply the Laws of Exponents to evaluate numerical expressions and generate equivalent numerical expressions involving rational exponents. Clarifications: <i>Clarification 1:</i> Instruction includes the use of technology when appropriate. <i>Clarification 2:</i> Refer to the K-12 Formulas (Appendix E) for the Laws of Exponents. <i>Clarification 3:</i> Instruction includes converting between expressions involving rational exponents and expressions involving radicals.	9.1

	<i>Clarification 4:</i> Within the Mathematics for Data and Financial Literacy course, it is not the expectation to generate equivalent numerical expressions.	
MA.912.NSO.1.2:	Generate equivalent algebraic expressions using the properties of exponents.	5.1, 9.1
MA.912.NSO.1.3:	Generate equivalent algebraic expressions involving radicals or rational exponents using the properties of exponents. Clarifications: <i>Clarification 1:</i> Within the Algebra 2 course, radicands are limited to monomial algebraic expressions.	9.1
MA.912.NSO.1.6:	Given a numerical logarithmic expression, evaluate and generate equivalent numerical expressions using the properties of logarithms or exponents. Clarifications: <i>Clarification 1:</i> Within the Mathematics for Data and Financial Literacy Honors course, problem types focus on money and business.	11.3, 11.4
MA.912.NSO.1.7:	Given an algebraic logarithmic expression, generate an equivalent algebraic expression using the properties of logarithms or exponents. Clarifications: <i>Clarification 1:</i> Within the Mathematics for Data and Financial Literacy Honors course, problem types focus on money and business.	11.4

6 English Language Arts Benchmarks and 1 English Language Development Benchmark		Textbook Section
ELA.K12.EE.1.1:	Cite evidence to explain and justify reasoning. Clarifications: 9-12 Students continue with previous skills and should be aware of existing style guides and the ways in which they differ.	Incorporated Throughout
ELA.K12.EE.2.1:	Read and comprehend grade-level complex texts proficiently. Clarifications: See Text Complexity for grade-level complexity bands and a text complexity rubric.	Incorporated Throughout
ELA.K12.EE.3.1:	Make inferences to support comprehension. Clarifications: Students will make inferences before the words infer or inference are introduced. Kindergarten students will answer questions like “Why is the girl smiling?” or make predictions about what will happen based on the title page. Students will use the terms and apply them in 2nd grade and beyond.	Incorporated Throughout

ELA.K12.EE.4.1:	<p>Use appropriate collaborative techniques and active listening skills when engaging in discussions in a variety of situations.</p> <p>Clarifications: In grades 3-12, students engage in academic conversations discussing claims and justifying their reasoning, refining and applying skills. Students build on ideas, propel the conversation, and support claims and counterclaims with evidence.</p>	<p>Incorporated Throughout</p>
ELA.K12.EE.5.1:	<p>Use the accepted rules governing a specific format to create quality work.</p> <p>Clarifications: Students will incorporate skills learned into work products to produce quality work. For students to incorporate these skills appropriately, they must receive instruction. A 3rd grade student creating a poster board display must have instruction in how to effectively present information to do quality work.</p>	<p>Incorporated Throughout</p>
ELA.K12.EE.6.1:	<p>Use appropriate voice and tone when speaking or writing.</p> <p>Clarifications: In kindergarten and 1st grade, students learn the difference between formal and informal language. For example, the way we talk to our friends differs from the way we speak to adults. In 2nd grade and beyond, students practice appropriate social and academic language to discuss texts.</p>	<p>Incorporated Throughout</p>
ELD.K12.ELL.MA.1:	<p>English language learners communicate information, ideas and concepts necessary for academic success in the content area of Mathematics.</p>	<p>Incorporated Throughout</p>