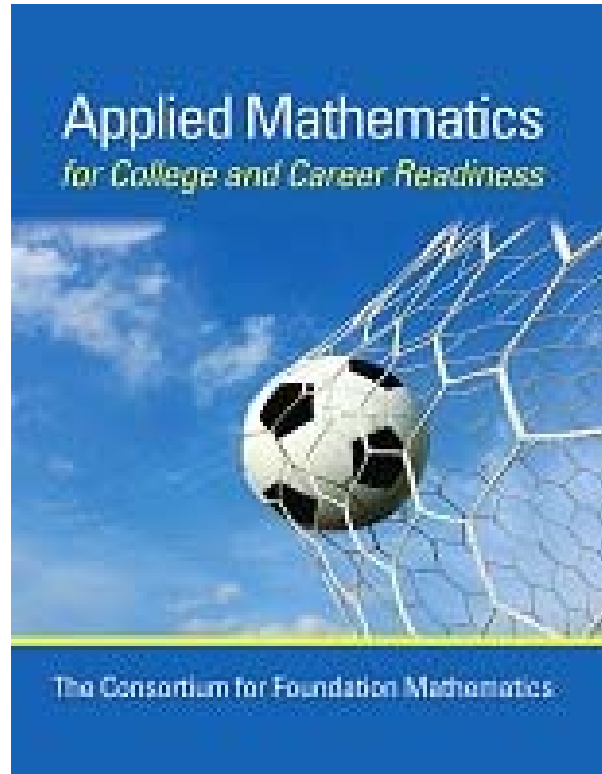


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**To the  
2016 Mississippi College- and  
Career-Readiness Standards  
for Mathematics  
High School - SREB Ready Units**

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<p style="text-align: center;"><b>2016 Mississippi College- and Career-Readiness Standards for Mathematics High School—SREB Math Ready</b></p>	<p style="text-align: center;"><b>Applied Mathematics for College and Career Readiness, ©2016</b></p>
<p><b>Unit 1: Algebraic Expressions:</b> The algebraic expressions unit was designed to solidify student understanding of expressions while providing the students with an opportunity to have success early in the course. The recurring theme integrated in this unit focuses on engaging students using and expanding the concepts found within purposefully chosen activities. Through guided lessons, students will manipulate, create and analyze algebraic expressions, and look at the idea of whether different sets of numbers are closed under certain operations.</p>	<p><b>SE/TE:</b> 13-15, 22-31, 62-63, 92-101, 171-177, 389-395, 428-435, 436-446, 557-566, 701-705, 706-713, 714-720, 721-725, 962-970, 982-987, 999-1007</p>
<p><b>Unit 2: Equations:</b> The equations unit calls for students to construct and evaluate problems that involve one or two steps while seeking understanding of how and why equations and inequalities are used in their daily lives. Students also use the structure of word problems and equations to rewrite and solve equations in different forms revealing different relationships.</p>	<p><b>SE/TE:</b> 22-31, 62-63, 84-91, 92-101, 102-114, 298-310, 385-388, 389-395, 396-401, 567-574, 575-577</p>
<p><b>Unit 3: Measurement and Proportional Reasoning:</b> This unit deals with unit conversions, using proportions for scaling, and area and volume. The unit requires higher-order thinking and number sense in order to get to the true intent of the standards covered. It is useful in helping students make connections with math and science or other subjects.</p>	<p><b>SE/TE:</b> 19-31, 32-40, 417-421, 422-427, 599-613, 614-620, 621-633, 634-637, 643-648, 649-656, 663-675</p>

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<p><b>Unit 4: Linear Functions:</b> This unit takes students back to the foundation of all high school mathematics—an in-depth study of linear functions. Along with allowing students to differentiate between relations that are functions and those that are not, the unit helps students specifically examine characteristics of linear functions. By looking closely at linear functions in multiple forms, students are expected to graph and write equations, as well as interpret their meaning in context of the slope and y-intercept. Students conclude with a project allowing them to collect their own data and write a line of best fit from that data.</p>	<p><b>SE/TE:</b> 47-61, 62-63, 77-83, 84-91, 92, 178-192, 193-203, 204-212, 213-225, 226-233, 234-242, 243-254</p>
<p><b>Unit 5: Linear Systems of Equations:</b> The systems unit deals with solving systems of linear equations. This involves helping students classify solutions (one, none or infinitely many), as well as set up and solve problems using systems of equations. Students also choose the best way to solve a system of equations and explain their solutions.</p>	<p><b>SE/TE:</b> 277-286, 291-297, 311-327</p>
<p><b>Unit 6: Quadratic Functions:</b> This unit is an expansive look at quadratic functions: their graphs, tables and algebraic functions. It stresses multiple approaches to graphing, solving and understanding quadratics, as students explore, make conjectures and draw conclusions in group-work settings. In this unit, students explore and learn from multiple applications of quadratics. The unit assumes students have seen quadratics before but may not have a concrete, transferrable understanding of quadratic functions. The unit does not cover algebraic manipulations (multiplying and factoring), as these are addressed in previous units.</p>	<p><b>SE/TE:</b> 74-76, 118, 169, 173, 353-361, 362-371, 372-384, 402-408</p>

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<p><b>Unit 7: Exponential Functions:</b> This unit develops students’ fluency in exponential functions through varying real-life financial applications/inquiries.</p>	<p><b>SE/TE:</b> 459-468, 469-473, 474-481, 482-496, 497-507, 508-515, 516-523, 532-539, 540-546, 547-556, 971-973</p>
<p><b>Unit 8: Summarizing and Interpreting Statistical Data (optional):</b> In this unit, students further develop skills to read, analyze, and communicate (using words, tables, and graphs) relationships and patterns found in data sets of one or more variables. Students learn how to choose the appropriate statistical tools and measurements to assist in analysis, communicate results, and read and interpret graphs, measurements, and formulas which are crucial skills in a world overflowing with data. Students explore these concepts while modeling real contexts based on data they collect.</p>	<p><b>SE/TE:</b> 226-233, 243-254, 255-261, 262-264, 402-408, 516-523, 547-556, 757-763, 764-772, 773-782, 783-792, 793-800, 801-807, 817-827, 828-834, 835-843, 847-854, 871-882, 883-892, 893-906, 907-915, 921-926, 927-935</p>

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<b>Mathematical Practices</b>	
1. Make sense of problems and persevere in solving them.	<b>SE/TE:</b> 1-2, 3-9, 10-18, 19-31, 32-40, 47-61, 62-73, 74-83, 84-91, 92-101, 102-114, 115-117, 118-127, 128-138, 226-233, 402-408, 516-523, 757-763, 847-854, 1023
2. Reason abstractly and quantitatively.	<b>SE/TE:</b> 3-9, 10-18, 19-31, 33-40, 47-61, 64, 102-114, 169-177, 298-310, 385-388, 396-401, 567-574, 657-662, 1023
3. Construct viable arguments and critique the reasoning of others.	<b>SE/TE:</b> 3-9, 12-13, 26-27, 52, 58-59, 64, 76, 115-117, 1023
4. Model with mathematics.	<b>SE/TE:</b> 1-2, 3-9, 10-18, 19-31, 32-40, 47-61, 74-83, 84-91, 92-101, 102-114, 115-117, 118-127, 128-130, 974-981, 988-995, 1008-1013, 1014-1022
5. Use appropriate tools strategically.	<b>SE/TE:</b> 65-67, 74-75, 130-133, 255-261, 360, 516-525, 592, 643-648, 956-961
6. Attend to precision.	<b>SE/TE:</b> 12-13, 28, 32-40, 63-64, 118-119, 121-124, 128-138, 226-233, 402-408, 547-556, 757-763, 828-834, 953-955
7. Look for and make use of structure.	<b>SE/TE:</b> 13-18, 22-31, 47-61, 62-73, 102-114, 128-138, 169-177, 389-395, 436-446, 557-566, 701-705
8. Look for and express regularity in repeated	<b>SE/TE:</b> 3-9, 11-18, 19-21, 56-58, 102-114, 128-130, 676-690, 726-738

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