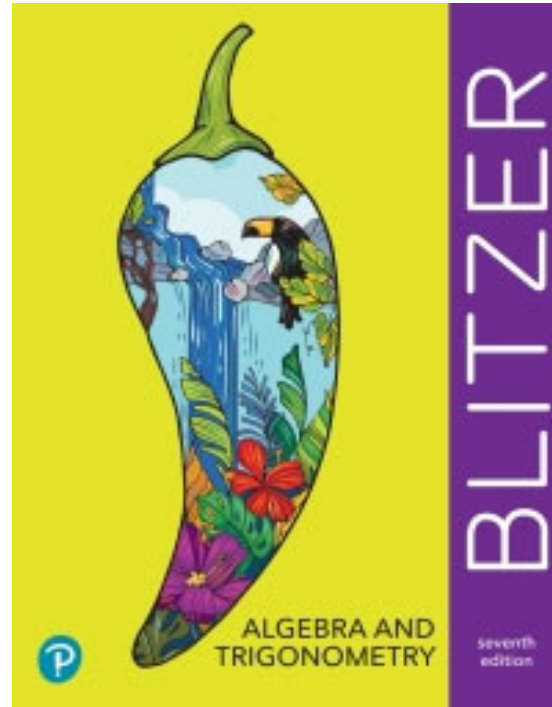


An Alignment of
Algebra and Trigonometry
7th Edition, ©2022



To the
Florida Mathematics
Mathematics for College Algebra
CPALMS Course 1200700 Standards

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To the Mathematics for College Algebra, Course 1200700 Standards**

**2021-2022 State of Florida Instructional Materials Adoption
K-12 Mathematics**

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SUBMISSION TITLE: Algebra and Trigonometry, 7th Edition, ©2022
GRADE LEVEL: 9-12
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BENCHMARK CODE	BENCHMARK	LESSONS WHERE STANDARD/BENCHMARK IS DIRECTLY ADDRESSED IN MAJOR TOOL (MOST IN-DEPTH COVERAGE LISTED FIRST) (Include the student edition and teacher edition with the page numbers of lesson, a link to lesson, or other identifier for easy lookup by reviewers.)
Algebraic Reasoning		
MA.912.AR.1 Interpret and rewrite algebraic expressions and equations in equivalent forms.		
MA.912.AR.1.2	Rearrange equations or formulas to isolate a quantity of interest.	SE/TE: 135-135, 137-139, 185-186, 3-4, 18-19, 1071-1073, 1084-1086, 1093-1094
MA.912.AR.1.3	Add, subtract and multiply polynomial expressions with rational number coefficients.	SE/TE: 51-59, 60-61, 63-72, 73-74, 175-176, 437
MA.912.AR.1.5	Divide polynomial expressions using long division, synthetic division or algebraic manipulation.	SE/TE: 384-393, 394-396, 397-407, 408-411
MA.912.AR.1.9	Apply previous understanding of rational number operations to add, subtract, multiply and divide rational algebraic expressions.	SE/TE: 75-86, 87-89, 114-117, 122-125, 438-442, 443-445, 859-867, 868-869

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MA.912.AR.2 Write, solve and graph linear equations, functions and inequalities in one and two variables.		
MA.912.AR.2.4	Given a table, equation or written description of a linear function, graph that function, and determine and interpret its key features.	SE/TE: 257-268, 269-272, 273-280, 281-282, 285
MA.912.AR.2.5	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.	SE/TE: 257-268, 269-272, 273-280, 281-282, 285, 446-448, 454-456
MA.912.AR.3 Write, solve and graph quadratic equations, functions and inequalities in one and two variables.		
MA.912.AR.3.7	Given a table, equation or written description of a quadratic function, graph that function, and determine and interpret its key features.	SE/TE: 446-453, 454-456, 152, 154, 158-159, 162, 165-166, 285
MA.912.AR.3.8	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.	SE/TE: 446-453, 454-456, 165-167, 285
MA.912.AR.4 Write, solve and graph absolute value equations, functions and inequalities in one and two variables.		
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.	SE/TE: 200-202, 205-207

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MA.912.AR.4.4	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.	SE/TE: 285-287, 297, 299
MA.912.AR.5 Write, solve and graph exponential and logarithmic equations and functions in one and two variables.		
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.	SE/TE: 506-515, 516-520
MA.912.AR.5.4	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.	SE/TE: 466-475, 476-479, 506-515, 516-520, 521-530, 531-536
MA.912.AR.5.6	Given a table, equation or written description of an exponential function, graph that function and determine its key features.	SE/TE: 466-475, 476-479, 31-32, 33-34, 484, 486, 490, 506, 509-510, 513-515, 517-520, 522, 525-530, 531-536
MA.912.AR.5.7	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.	SE/TE: 466-475, 476-479, 20-22, 45-47, 480-481, 506-515, 516-520, 521-530, 531-536

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MA.912.AR.5.8	Given a table, equation or written description of a logarithmic function, graph that function and determine its key features.	SE/TE: 484-490, 491-494, 515, 527-528, 532-535
MA.912.AR.5.9	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.	SE/TE: 480-490, 491-494, 495-502, 503-505, 506-515, 516-520, 521-530, 531-536
MA.912.AR.7 Solve and graph radical equations and functions in one and two variables.		
MA.912.AR.7.1	Solve one-variable radical equations. Interpret solutions as viable in terms of context and identify any extraneous solutions.	SE/TE: 177-180, 186-187, 188-190
MA.912.AR.8 Solve and graph rational equations and functions in one and two variables.		
MA.912.AR.8.1	Write and solve one-variable rational equations. Interpret solutions as viable in terms of the context and identify any extraneous solutions.	SE/TE: 114-118, 122-125, 438-440
MA.912.AR.9 Write and solve a system of two- and three-variable equations and inequalities that describe quantities or relationships.		
MA.912.AR.9.4	Graph the solution set of a system of two-variable linear inequalities.	SE/TE: 881-889, 890-893, 894-898, 899-901

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MA.912.AR.9.6	Given a real-world context, represent constraints as systems of linear equations or inequalities. Interpret solutions to problems as viable or non-viable options.	SE/TE: 894-898, 899-901
MA.912.AR.9.10	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.	SE/TE: 247-249, 252-256
Functions		
MA.912.F.1 Understand, compare and analyze properties of functions.		
MA.912.F.1.1	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.	SE/TE: 96-104, 105-107, 218-231, 232-236, 285-295, 296-299, 446-453, 454-456, 521-530, 531-536
MA.912.F.1.2	Given a function represented in function notation, evaluate the function for an input in its domain. For a real-world context, interpret the output.	SE/TE: 222-225, 227-228, 231-236, 259, 262-264, 287, 305-307, 309, 316, 357, 378, 414-415, 467-468
MA.912.F.1.3	Calculate and interpret the average rate of change of a real-world situation represented graphically, algebraically or in a table over a specified interval.	SE/TE: 277-280, 281-282

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MA.912.F.1.6	Compare key features of linear and nonlinear functions each represented algebraically, graphically, in tables or written descriptions.	SE/TE: 285-295, 296-299, 228-230, 237-250, 251-256, 528-529
MA.912.F.2 Identify and describe the effects of transformations on functions. Create new functions given transformations.		
MA.912.F.2.1	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 .	SE/TE: 286-295, 296-299, 349-352, 361-362, 420-422, 471, 602-616, 619-622
MA.912.F.2.2	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.	SE/TE: 286-295, 296-299, 349-352, 361-362, 471, 602-616, 619-622
MA.912.F.2.3	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 .	SE/TE: 285-295, 296-299, 349-352, 361-362, 471, 602-616, 619-622
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.	SE/TE: 286-295, 296-299, 349, 471, 604-606, 608

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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.	SE/TE: 286, 288-295, 296-299, 350-352, 361-362, 471, 604-614
MA.912.F.3 Create new functions from existing functions.		
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.	SE/TE: 303-309, 312-314, 315-317
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.	SE/TE: 300-311, 312-314, 315-317, 323, 646-650, 651-654
MA.912.F.3.6	Determine whether an inverse function exists by analyzing tables, graphs and equations.	SE/TE: 320-322, 323-325, 480, 483-484, 643-645
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.	SE/TE: 315-322, 323-325, 482-483, 643-650, 651-654

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Number Sense and Operations		
MA.912.NSO.1 Generate equivalent expressions and perform operations with expressions involving exponents, radicals or logarithms.		
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.	SE/TE: 35-47, 48-50, 466-475, 476-479, 521-530, 531-536
MA.912.NSO.1.2	Generate equivalent algebraic expressions using the properties of exponents.	SE/TE: 20-32, 33-34, 39, 41-47, 48-50, 467-471, 506-515, 516-520, 1071, 1077
MA.912.NSO.1.3	Generate equivalent algebraic expressions involving radicals or rational exponents using the properties of exponents.	SE/TE: 35-47, 48-50, 467-471, 506-515, 516-520, 1071, 1077
MA.912.NSO.1.6	Given a numerical logarithmic expression, evaluate and generate equivalent numerical expressions using the properties of logarithms or exponents.	SE/TE: 481-483, 487-490, 491-494, 495-502, 503-505, 506-515, 516-520
MA.912.NSO.1.7	Given an algebraic logarithmic expression, generate an equivalent algebraic expression using the properties of logarithms or exponents.	SE/TE: 480-483, 487-490, 491-494, 495-502, 503-505, 506-515, 516-520

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Mathematical Thinking and Reasoning		
MA.K12.MTR.1.1	<p>Actively participate in effortful learning both individually and collectively.</p> <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>SE/TE: 5, 9, 13, 28-29, 36, 38-41, 43, 51, 53, 56-57, 64-65, 67-70, 79, 82, 84, 96-97, 99-101, 104, 111, 116, 118, 126, 128-129, 131, 134-135, 142, 145, 156-157, 161-163, 167, 176, 178, 180, 182, 194, 196, 200, 202, 221, 223, 230, 239-241, 243, 246, 248, 258, 260, 262, 265, 286-288, 291-292, 317, 319, 328, 331, 354-355, 367, 369, 373, 375, 385, 391, 398-399, 403, 405-406, 418-419, 423, 481, 484, 498-499, 508, 511, 529, 555, 562-563, 565, 568, 570, 579, 581, 593, 606, 609, 611, 637, 643-644, 646, 658, 674, 676, 678, 688, 693, 698, 701-704, 710, 719, 723, 726, 729, 740-741, 745, 755, 771-772, 788, 792, 799, 802-803, 808, 833-834, 836, 840, 848, 852, 862-864, 867-868, 874, 884, 888, 910-912, 920, 939, 952, 955, 963, 969, 971-972, 986, 1000-1001, 1007-1008, 1016, 1019, 1024, 1032-1033, 1092-1094, 1096, 1121, 1131</p>

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MA.K12.MTR.2.1	<p>Demonstrate understanding by representing problems in multiple ways.</p> <p>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>SE/TE: 19, 34, 50, 61, 74-75, 89, 106, 125, 138-139, 149, 172, 190, 207, 236, 256, 271, 282, 298, 314, 325, 364, 382, 396, 410, 431-432, 444, 455, 478-479, 494, 504, 518-519, 534, 560, 576, 590, 599, 620-621, 634-635, 653, 664, 685, 696, 707, 715, 732, 751, 760, 771-772, 782, 797, 812, 822, 850, 858, 869, 879, 892, 900, 923, 932, 947, 961-962, 975, 997, 1013, 1027, 1039, 1050, 1060, 1080, 1091, 1106, 1115, 1123, 1135, 1150</p>

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MA.K12.MTR.3.1	Complete tasks with mathematical fluency. Mathematicians who complete tasks with mathematical fluency: <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. 	SE/TE: 18-19, 49-50, 61, 74, 88-89, 106, 124-125, 136-138, 149, 170-172, 189-190, 206-207, 234-235, 255, 270-271, 279, 281-282, 298, 301-302, 304, 310, 313-314, 324-325, 362-364, 381-382, 395-396, 409-410, 414-415, 430-431, 439-440, 443-444, 454-455, 477-478, 493, 504, 517-518, 531-533, 559-560, 575-576, 590, 598-599, 620, 633-634, 652-653, 663-664, 695-696, 707, 715, 731-732, 749-751, 758-760, 771, 782, 797, 810-812, 821, 846-849, 857-858, 869, 878-879, 891-892, 899-900, 922-923, 931-932, 946-947, 961, 975, 997, 1012, 1026-1027, 1049-1050, 1060, 1079-1080, 1090-1091, 1104-1106, 1122-1123, 1133-1135, 1148-1150

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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>SE/TE: 35, 108, 208, 272, 326, 365, 456, 494, 520, 535, 599, 622, 696, 716, 760, 797, 822, 850, 893, 901, 933, 948, 962, 976, 1028, 1081, 1106, 1116, 1123-1124, 1135, 1151</p>

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MA.K12.MTR.5.1	<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>SE/TE: 5, 11, 65, 76, 112, 147, 177, 184, 196, 224, 261, 285, 289, 318, 320, 369, 495-496, 501, 509, 554, 570, 580, 583-585, 644, 655, 679, 693, 698, 702, 753, 763, 794, 806, 819, 839, 854, 924, 928, 937, 942, 944, 964, 986, 1000</p>

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MA.K12.MTR.6.1	Assess the reasonableness of solutions. Mathematicians who assess the reasonableness of solutions: <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. 	SE/TE: 19-20, 35, 50, 62, 75, 89-90, 107-108, 125, 139, 149, 172, 190, 207-208, 236, 256, 272, 282, 298-299, 314, 325-326, 365, 383, 396, 410-411, 432, 445, 455-456, 479, 479, 504-505, 519, 534-535, 547-548, 550-551, 560, 577, 590, 599, 621-622, 635, 653-654, 664-665, 685, 696, 708, 716, 732, 751, 760, 772, 783, 797, 812, 822, 850, 858-859, 869, 879, 892-893, 900-901, 923, 932, 948, 962, 975-976, 998, 1013, 1028, 1040, 1050-1051, 1061, 1080, 1091, 1106, 1115-1116, 1135, 1150-1151
MA.K12.MTR.7.1	Apply mathematics to real-world contexts. Mathematicians who apply mathematics to real-world contexts: <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. 	SE/TE: 18-19, 49-50, 61, 74, 88-89, 106, 124-125, 136-138, 149, 170-172, 189-190, 206-207, 234-235, 255, 270-271, 279, 281-282, 298, 301-302, 304, 310, 313-314, 324-325, 362-364, 381-382, 395-396, 409-410, 414-415, 430-431, 439-440, 443-444, 454-455, 477-478, 493, 504, 517-518, 531-533, 559-560, 575-576, 590, 598-599, 620, 633-634, 652-653, 663-664, 695-696, 707, 715, 731-732, 749-751, 758-760, 771, 782, 797, 810-812, 821, 846-849, 857-858, 869, 878-879, 891-892, 899-900, 922-923, 931-932, 946-947, 961, 975, 997, 1012, 1026-1027, 1049-1050, 1060, 1079-1080, 1090-1091, 1104-1106, 1122-1123, 1133-1135, 1148-1150

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ELA Expectations		
ELA.K12.EE.1.1	Cite evidence to explain and justify reasoning.	SE/TE: 19-20, 35, 50, 62, 75, 89-90, 107-108, 125, 139, 149, 172, 190, 207-208, 236, 256, 272, 282, 298-299, 314, 325-326, 365, 383, 396, 410-411, 432, 445, 455-456, 479, 504-505, 519, 534-535, 547-548, 550-551, 560, 577, 590, 599, 621-622, 635, 653-654, 664-665, 685, 696, 708, 716, 732, 751, 760, 772, 783, 797, 812, 822, 850, 858-859, 869, 879, 892-893, 900-901, 923, 932, 948, 962, 975-976, 998, 1013, 1028, 1040, 1050-1051, 1061, 1080, 1091, 1106, 1115-1116, 1135, 1150-1151
ELA.K12.EE.2.1	Read and comprehend grade-level complex texts proficiently.	SE/TE: 5, 15, 32, 47, 59, 167, 259, 268, 280, 315, 361, 370, 416, 470, 490, 514, 524, 530, 573, 618, 659-661, 688, 713, 795, 801, 941, 943, 959, 994, 1022-1023, 1047, 1058, 1073, 1094-1095, 1100, 1121, 1127, 1129, 1142, 1146
ELA.K12.EE.3.1	Make inferences to support comprehension.	SE/TE: 35, 50, 62, 107-108, 125, 190, 207-208, 236, 256, 272, 282, 298-299, 314, 325-326, 455-456, 479, 504-505, 519, 534-535, 621-622, 635, 653-654, 664-665, 685, 696, 708, 716, 822, 850, 858-859, 869, 879, 892-893, 900-901, 923, 932, 948, 962, 975-976, 998, 1013, 1028, 1040, 1050-1051, 1061, 1080, 1091, 1106, 1115-1116, 1135, 1150-1151
ELA.K12.EE.4.1	Use appropriate collaborative techniques and active listening skills when engaging in discussions in a variety of situations.	SE/TE: 35, 108, 208, 272, 326, 365, 456, 494, 520, 535, 599, 622, 696, 716, 760, 797, 822, 850, 893, 901, 933, 948, 962, 976, 1028, 1081, 1106, 1116, 1123-1124, 1135, 1151
ELA.K12.EE.5.1	Use the accepted rules governing a specific format to create quality work.	SE/TE: 19, 73, 121, 136, 147, 168, 186, 204, 231, 236, 250, 268, 296, 311, 323, 379, 393, 407, 427, 475, 490, 502, 516, 588, 669, 708, 729, 757, 844, 855, 876, 889
ELA.K12.EE.6.1	Use appropriate voice and tone when speaking or writing.	SE/TE: 19-20, 89-90, 107-108, 190, 207-208, 236, 256, 272, 282, 298-299, 314, 325-326, 365, 383, 396, 410-411, 432, 445, 455-456, 479, 504-505, 519, 534-535, 547-548, 550-551, 621-622, 635, 653-654, 664-665, 685, 696, 708, 716, 732, 751, 760, 772, 783, 797, 812, 822, 850, 858-859, 869, 879, 892-893, 900-901, 923, 932, 948, 962, 975-976, 998, 1050-1051, 1061, 1080, 1091, 1106, 1115-1116, 1135, 1150-1151

SE = Student Edition

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To the Mathematics for College Algebra, Course 1200700 Standards**

BENCHMARK CODE	BENCHMARK	LESSONS WHERE STANDARD/BENCHMARK IS DIRECTLY ADDRESSED IN MAJOR TOOL (MOST IN-DEPTH COVERAGE LISTED FIRST) (Include the student edition and teacher edition with the page numbers of lesson, a link to lesson, or other identifier for easy lookup by reviewers.)
English Language Learners		
ELD.K12.ELL.MA.1	English language learners communicate information, ideas and concepts necessary for academic success in the content area of Mathematics.	SE/TE: 19, 34, 50, 61, 74-75, 89, 106, 125, 138-139, 149, 172, 190, 207, 236, 256, 271, 282, 298, 314, 325, 364, 382, 396, 410, 431-432, 444, 455, 478-479, 494, 504, 518-519, 534, 560, 576, 590, 599, 620-621, 634-635, 653, 664, 685, 696, 707, 715, 732, 751, 760, 771-772, 782, 797, 812, 822, 850, 858, 869, 879, 892, 900, 923, 932, 947, 961-962, 975, 997, 1013, 1027, 1039, 1050, 1060, 1080, 1091, 1106, 1115, 1123, 1135, 1150

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