

A Correlation of

**MyMathLab® for School
Algebra & Trigonometry**

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MyMathLab® for School

to the

Tennessee

Mathematics Standards

Approved July 30, 2010

Advanced Algebra & Trigonometry, #3124

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**A Correlation of MyMathLab® for School Algebra & Trigonometry ©2016
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Advanced Algebra & Trigonometry Course #3124**

Tennessee Mathematics Standards Advanced Algebra & Trigonometry Course #3124	MyMathLab® for School Algebra & Trigonometry, ©2016
Standard 1 – Mathematical Processes	
Course Level Expectations	
CLE 3124.1.1 Use mathematical language, symbols, definitions, proofs and counterexamples correctly and precisely in mathematical reasoning.	SE/TE: P.1: 2-16, P.2: , 20-28, P.3: 37-47, P.5: 64-73, 1.2: 107-117, 4.1: 469-475, 6.1: 642-650, 6.2: 653-660, 6.3: 664-671, 6.4: 677-679, 6.5: 689-692, 11.4: 1056-1062
CLE 3124.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including testing cases, estimation, and then checking induced errors and the reasonableness of the solution.	SE/TE: P.1: 2-16, 1.5: 151, 2.3: 254, 2.8: 315, 3.5: 396, 400, 4.1: 443, 448-449, 4.2: 471-472, 4.5: 500-501, 5.1: 541-544, 7.3: 726-727, 9.1: 874, 10.4: 985, 988, 11.2: 1035
CLE 3124.1.3 Develop inductive and deductive reasoning to independently make and evaluate mathematical arguments and construct appropriate proofs; include various types of reasoning, logic, and intuition.	SE/TE: P.1: 12-16, P.3: 37-47, P.5: 64-73, 1.2: 107-117, 3.5: 391-405, 3.7: 424-430, 4.1: 469-475, 6.1: 642-650, 6.2: 653-660, 6.3: 664-671, 6.4: 677-679, 6.5: 689-692, 11.4: 1056-1062
CLE 3124.1.4 Move flexibly between multiple representations (contextual, physical, written, verbal, iconic/pictorial, graphical, tabular, and symbolic), to solve problems, to model mathematical ideas, and to communicate solution strategies.	SE/TE: 2.2 232-235, 237, 2.3: 244-254, 2.4: 259-266, 2.5: 270-281, 3.1: 330-342, 3.2: 347-359, 3.4: 376-385, 3.5: 391-405, 3.7: 424-430, 4.1: 442-451, 4.2: 455-464, 4.5: 494-503, 5.5 572-588, 5.6: 593-601, 5.7: 606-613, 5.8 627
CLE 3124.1.5 Recognize and use mathematical ideas and processes that arise in different settings, with an emphasis on formulating a problem in mathematical terms, interpreting the solutions, mathematical ideas, and communication of solution strategies.	SE/TE: 1.4: 137-141, 2.2 232-235, 237, 3.4: 376-385, 3.7: 424-430, 4.1: 442-451, 4.5: 494-503, 5.5 572-588, 5.8 627, 7.7: 778, 780-781, 10.2: 951-959 10.5: 993-996, 11.3: 1043-1045, 11.5: 1065-1068
CLE 3124.1.6 Employ reading and writing to recognize the major themes of mathematical processes, the historical development of mathematics, and the connections between mathematics and the real world.	SE/TE: 1.1: 94, 3.4: 376-377, 382-384, 5.8 628, 6.4: 682, 7.5: 746, 10.1: 944-945, 10.6: 1007
CLE 3124.1.7 Use technologies appropriately to develop understanding of abstract mathematical ideas, to facilitate problem solving, and to produce accurate and reliable models.	SE/TE: 1.1: 97-98, 1.2: 114-116, 2.1: 217, 2.3: 254, 3.1: 341-342, 3.2: 349, 352-355, 3.6: 413-415, 418-419, 4.2: 471-472, 476, 4.5: 499-502 5.1: 541-544, 5.5 583-585, 6.1: 643, 6.2: 655-659, 7.3: 726-727, 8.2: 812, 8.3: 823, 9.1: 874, 10.4: 985, 988, 11.2: 1035

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Check for Understanding (Formative/Summative Assessment):	
3124.1.1 Give a sequence of algebraic or mathematical reasons to establish the validity of a simple numerical property or relationship.	SE/TE: P.1: 12-16, P.3: 37-47, P.5: 64-73, 1.2: 107-117, 3.5: 391-405, 3.7: 424-430, 4.1: 469-475, 6.1: 642-650, 6.2: 653-660, 6.3: 664-671, 6.4: 677-679, 6.5: 689-692, 11.4: 1056-1062
3124.1.2 Use algebraic properties to develop a valid sequence of mathematical statements.	SE/TE: P.1: 12-16, 1.2: 107-117, 4.1: 469-475, 6.1: 642-650, 6.2: 653-660, 6.3: 664-671, 6.4: 677-679, 6.5: 689-692, 11.4: 1056-1062
3124.1.3 Derive and apply the formulas for the area of the triangle and the sector of a circle.	SE/TE: 1.3: 129, 7.1: 708, 7.2: 718
3124.1.4 Organize and display data in a spreadsheet in order to recognize patterns and solve problems.	SE/TE: 4.5: 500-501
3124.1.5 Conduct simple experiments or investigations to collect non-linear data to answer questions of interest and to identify a particular model function from a family of functions.	SE/TE: 3.1: 338-342, 3.5: 404-405, 3.7: 423-430, 4.1: 448-451, 4.2: 464, 4.5: 499-503
3124.1.6 Analyze situations, develop mathematical models, or solve problems using linear, quadratic, exponential, or logarithmic equations or inequalities symbolically or graphically.	SE/TE: 2.2 232-235, 237, 2.3: 244-254, 2.4: 259-266, 2.5: 270-281, 3.1: 330-342, 3.2: 347-359, 3.4: 376-385, 3.5: 391-405, 3.7: 424-430, 4.1: 442-451, 4.2: 455-464, 4.5: 494-503
3124.1.7 Make inferences or predictions using an algebraic model of a situation.	SE/TE: 2.3: 253-254, 4.5: 501
3124.1.8 Draw qualitative graphs of functions and describe their general shape/trend.	SE/TE: 2.2 232-235, 237, 2.3: 244-254, 2.4: 259-266, 2.5: 270-281, 3.1: 330-342, 3.2: 347-359, 3.4: 376-385, 3.5: 391-405, 3.7: 424-430, 4.1: 442-451, 4.2: 455-464, 4.5: 494-503, 5.5 572-589, 5.6: 593-601, 5.7: 606-618, 5.8: 626-627
3124.1.9 Use graphing calculators and computer spreadsheets to analyze qualities of a function.	SE/TE: 2.3: 254, 2.5: 283, 3.1: 337, 341-342, 3.2: 348-349, 352-355, 3.4: 378, 381-382, 384, 3.5: 396, 400-401, 4.2: 463, 4.5: 499-502, 5.5 583, 585, 588, 5.8: 627

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3124.1.10 Discuss interpolation vs. extrapolation and the validity of the resulting estimates.	SE/TE: 2.3: 253-254, 4.5: 501
3124.1.11 Correctly use summation notation; expand and collect expressions in both finite and infinite settings.	SE/TE: 11.1: 1022-1025, 11.2: 1033-1036, 11.3: 1043-1045, 1048-1050, 11.4: 1056, 1058-1062, 11.5: 1065-1068
3124.1.12 Understand the different representations of a function; discuss the criteria (type of function and problem under consideration) for determining which representation is most helpful.	SE/TE: 2.2 232-235, 237, 2.3: 244-254, 2.4: 259-266, 2.5: 270-281, 3.1: 330-342, 3.2: 347-359, 3.4: 376-385, 3.5: 391-405, 3.7: 424-430, 4.1: 442-451, 4.2: 455-464, 4.5: 494-503, 5.5 572-588, 5.6: 593-601, 5.7: 606-613, 5.8: 627
Standard 2 – Number & Operations	
Course Level Expectations	
CLE 3124.2.1 Understand the capabilities and the limitations of calculators and computers in solving problems.	SE/TE: 1.1: 97-98, 1.2: 114-116, 2.1: 217, 2.3: 254, 3.1: 341-342, 3.2: 349, 352-355, 3.6: 413-415, 418-419, 4.2: 471-472, 476, 4.5: 499-502 5.1: 541-544, 5.5 583-585, 6.1: 643, 6.2: 655-659, 7.3: 726-727, 8.2: 812, 8.3: 823, 9.1: 874, 10.4: 985, 988, 11.2: 1035
CLE 3124.2.2 Represent, interpret or compare expressions for real numbers, including expressions utilizing exponents and logarithms.	SE/TE: P.1: 6-14, P.2: 21, 23, 28-32, P.3: 36-37, 44-46, 4.1: 448
CLE 3124.2.3 Develop the arithmetic and properties of the complex numbers	SE/TE: 1.4: 137-141, 1.5: 154-155, 7.5: 746-755
Check for Understanding (Formative/Summative Assessment)	
3124.2.1 Use calculators appropriately; make estimations without a calculator regularly to detect potential errors.	SE/TE: 1.5: 151, 2.3: 254, 2.8: 315, 3.5: 396, 400, 4.1: 443, 448-449, 4.2: 471-472, 4.5: 499-502, 5.1: 541-544, 7.3: 726-727, 9.1: 874, 10.4: 985, 988, 11.2: 1035
3124.2.2 Compare exponential and logarithmic expressions.	SE/TE: P.2: 21, 23, 28-32, 4.2: 456-458, 462-464, 4.3: 469-476, 4.4: 480-489
3124.2.3 Define the number i and perform all the arithmetic operations including division and calculating the modulus of a complex number.	SE/TE: 1.4: 137-141, 1.5: 154-155, 7.5: 746-755

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3124.2.4 Classify real numbers and order real numbers that include transcendental expressions, including roots and fractions of pi and e. Discuss the problems with ordering the complex numbers in relationship to their arithmetic operations.	SE/TE: P.1: 6-14, P.2: 28-32, 4.1: 448
3124.2.5 Demonstrate round-off error, overflow error, and errors in mode settings (ex. Degree vs. radians) with particular examples	SE/TE: 1.6: 170, 172, 2.3: 254, 2.8: 315, 138, 3.5: 396, 400 4.1: 448-449, 4.2: 471-472, 4.5: 500-502, 5.1: 541-544
Standard 3 – Algebra	
Course Level Expectations	
CLE 3124.3.1 Derive and use the formulas for the general term and summation of finite or infinite arithmetic and geometric series, if they exist.	SE/TE: 11.2: 1033-1036, 11.3: 1043-1045, 1048-1050
CLE 3124.3.2 Identify or analyze the distinguishing properties of exponential, polynomial, logarithmic, trigonometric, and rational functions from tables, graphs, and equations.	SE/TE: 2.2 232-235, 237, 2.3: 244-254, 2.4: 259-266, 2.5: 270-281, 3.1: 330-342, 3.2 347-359, 3.4: 376-385, 3.5: 391-405, 3.7: 424-430, 4.1: 442-451, 4.2: 455-464, 4.5: 494-503, 5.5 572-589, 5.6: 593-601, 5.7: 606-618, 5.8: 626-627
CLE 3124.3.3 Understand how the algebraic properties of an equation transform the geometric properties of its graph.	SE/TE: 2.2 232-235, 2.3: 244-254, 2.4: 259-266, 2.5: 270-281, 3.1: 330-342, 3.2 347-359, 3.4: 376-385, 3.5: 391-405, 3.7: 424-430, 4.1: 442-451, 4.2: 455-464, 4.5: 494-503, 5.5 573-589, 5.6: 594-601, 5.8: 626-627
CLE 3124.3.4 Solve nonlinear inequalities (quadratic, trigonometric, conic, exponential, and logarithmic).	SE/TE: 3.6: 410-419, 8.5: 842-843, 845-846
CLE 3124.3.5 Solve problems by converting the given verbal information into an appropriate mathematical model involving equations or systems of equations; apply appropriate techniques to analyze these mathematical models; and interpret the solution obtained in written form using appropriate units of measurement.	SE/TE: 1.2: 105, 116-117, 1.3: 122-132, 1.5: 157-158, 1.6: 177-178, 4.4: 486-489, 8.1: 792-802, 8.2: 808-812, 8.4: 827-834, 8.5: 843-847, 8.6: 854-855, 9.1: 866, 868-874, 9.2: 878-884, 9.5 919-921, 924-926
CLE 3124.3.6 Understand the properties of conic sections whether displayed in equation or graphical form.	SE/TE: 10.1: 936-945, 10.2: 949-960, 10.3: 964-973, 10.4: 978-988, 10.5: 991-997, 10.6: 1000-1007

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CLE 3124.3.7 Use the binomial theorem to solve problems.	SE/TE: 11.5: 1064-1069
Check for Understanding (Formative/Summative Assessment)	
3124.3.1 Find the sum, if it exists, of finite and infinite arithmetic series.	SE/TE: 11.2: 1033-1036
3124.3.2 Find the sum of an infinite geometric series whose common ratio, r , is in the interval $[-1, 1]$.	SE/TE: 11.3: 1048-1050
3124.3.3 Find the sum of a finite arithmetic series.	SE/TE: 11.2: 1033-1036
3124.3.4 Determine the domain and range of a function, in interval notation, given various forms and contexts.	SE/TE: 2.1: 211-213, 221-223, 2.6: 286-288, 290, 294-296, 3.5: 391-405 4.1: 445, 4.2: 461, 463, 5.4: 564-565, 5.6: 593-599, 601
3124.3.5 Explain why the graph of a function and its inverse are reflections of one another over the line $y = x$.	SE/TE: 2.7: 307-308 4.2: 459-461 5.7: 607
3124.3.6 Identify whether a function has an inverse and when functions are inverses of each other.	SE/TE: 2.7: 300-308 4.2: 455-456, 458-464 5.7: 606-618
3124.3.7 Prove basic properties of a logarithm using properties of its inverse and apply those properties to solve problems.	SE/TE: 4.2: 455-465, 4.3: 469-476, 4.4: 479-489
3124.3.8 Explain the relationship between the real zeros and the x -intercept of the graph of a function (polynomial, rational, exponential, logarithmic, and trigonometric).	SE/TE: 3.1: 332-333, 335-339, 3.2: 352-354, 357-358, 3.4: 376-386, 5.5: 574-578, 580-585, 5.6: 593-596, 598, 600
3124.3.9 Find the inverse of an exponential or a logarithmic function.	SE/TE: 4.2: 455-465, 4.3: 469-476, 4.4: 479-489
3124.3.10 Identify the real zeros of the graph of a function (polynomial, rational, exponential, logarithmic, trigonometric) in equation or graphical form.	SE/TE: 3.1: 332-333, 335-339, 3.2: 352-354, 357-358, 3.4: 376-386, 5.4: 564, 5.5: 572, 575-578, 580-585, 5.6: 593-596, 598, 600
3124.3.11 Determine when a rational function is undefined; discuss the end behavior of rational functions	SE/TE: 3.5: 392-398, 400-403

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3124.3.12 Determine the domain and range of a piecewise function.	SE/TE: 2.2: 234-236
3124.3.13 For a given graph, locate maximums, minimums, increasing and decreasing intervals, and zeroes.	SE/TE: 2.2: 229-237, 3.1: 330-339, 3.2: 349-359, 3.4: 376-386, 5.4: 564, 5.5: 572-589, 5.6: 594-601, 5.8: 626-627
3124.3.14 Identify characteristics of graphs based on a set of conditions or on a general equation such as $y = ax^2 + c$.	SE/TE: 2.2: 232-235, 2.3: 244-254, 2.4: 259-266, 2.5: 270-281, 3.1: 330-342, 3.2: 347-359, 3.4: 376-385, 3.5: 391-405, 3.7: 424-430, 4.1: 442-451, 4.2: 455-464, 4.5: 494-503, 5.5: 573-589, 5.6: 594-601, 5.8: 626-627
3124.3.15 Sketch the graph of a given a rational function and locate vertical, horizontal, and slant asymptotes, and holes in the graph if they exist.	SE/TE: 3.5: 392-398, 400-403
3124.3.16 Given a function, describe the transformation of the graph resulting from the manipulation of the algebraic properties of the equation.	SE/TE: 2.5: 270-281, 3.1: 330-333, 3.5: 398-399, 4.1: 445-447, 4.2: 460-461, 5.5: 572-589, 5.6: 593-601, 5.8: 626-627
3124.3.17 Solve nonlinear inequalities by graphing (solutions in interval notation if one-variable).	SE/TE: 3.6: 410-419, 8.5: 842-843, 845-846
3124.3.18 Solve systems of nonlinear inequalities by graphing and with numerical (tabular) methods.	SE/TE: 3.6: 410-419, 8.5: 843, 845-846
3124.3.19 Solve real world problems that can be modeled using quadratic or exponential functions.	SE/TE: 3.1: 330-342, 4.1: 442-451, 4.2: 455-464, 4.5: 494-503
3124.3.20 Graph circles and demonstrate an understanding of the relationship between their standard algebraic form and the graphical characteristics.	SE/TE: 2.8: 314-318, 10.1: 949, 10.5: 993

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3124.3.21 From an equation in standard form, graph the appropriate conic section.	SE/TE: 10.1: 938-943, 10.2: 950-959, 10.3: 965-972
3124.3.22 Graph ellipses and hyperbolas and demonstrate understanding of the relationship between their standard algebraic form and the graphical characteristics.	SE/TE: 10.1: 939-943, 10.2: 951-959 10.4: 979, 981, 985, 988 10.5: 993-996, 10.6: 1001, 1004, 1006
3124.3.23 Demonstrate the issues of graphing circles on a calculator, including required screen settings.	SE/TE: 2.8: 314-318
3124.3.24 Display all of the conic sections as portions of a cone.	SE/TE: 10.1: 936 10.2: 959 10.3: 973
3124.3.25 Accurately and completely describe the graph of a function using mathematical terminology, including a complete analysis of informative points, intervals, domain and range, concavity, descriptions of function change such as intervals of increasing, and end behavior.	SE/TE: 2.2: 232-235, 2.3: 244-254, 2.4: 259-266, 2.5: 270-281, 3.1: 330-342, 3.2: 347-359, 3.4: 376-385, 3.5: 391-405, 3.7: 424-430, 4.1: 442-451, 4.2: 455-464, 4.5: 494-503, 5.5: 573-589, 5.6: 594-601, 5.8: 626-627
3124.3.26 Use the Binomial Theorem to perform a binomial expansion.	SE/TE: 11.5: 1064-1069
Standard 4 – Geometry & Measurement	
Course Level Expectations:	
CLE 3124.4.1 Understand basic right triangle trigonometry and use it to solve problems.	SE/TE: 5.2: 532-544, 549-550, 559, 5.8: 622-626
CLE 3124.4.2 Know how the trigonometric functions can be extended to the periodic functions on the real number line, derive basic formulas of these functions, and use these functions and formulas to solve problems.	SE/TE: 5.3: 549-559, 5.4: 562-567, 5.5: 572, 581, 5.6: 593
CLE 3124.4.3 Solve trigonometric equations.	SE/TE: 5.8: 623-624, 6.5: 684-694
CLE 3124.4.4 Apply trigonometric identities to rewrite expressions and solve equations.	SE/TE: 6.1: 642-650, 6.2: 653-660, 6.3: 664-671, 6.4: 677-679, 6.5: 689-692

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CLE 3124.4.5 Apply vectors to solve real world problems.	SE/TE: 7.6: 768-769, 7.7: 778, 780-781
CLE 3124.4.6 Understand the measure of angles and the relationship to the circle; convert between degrees and radians.	SE/TE: 5.1: 516-528
CLE 3124.4.7 Develop the measurement of arcs of circles; calculate angular and linear velocity.	SE/TE: 5.1: 526-528
Check for Understanding (Formative/Summative Assessment)	
3124.4.1 Solve problems using the fact that trigonometric ratios (sine, cosine, and tangent) stay constant in similar triangles.	SE/TE: 5.2: 542-544, 5.8: 622-626
3124.4.2 Apply properties of 30°-60°-90° and 45°-45°-90° right triangles and reference angles to find trigonometric ratios for the following angles (and any coterminal angles) without a calculator: 30°, 45°, 60°, 120°, 135°, 150°, 210°, 225°, 240°, 300°, 315°, 330°	SE/TE: 5.2: 535-537, 5.3: 551-552, 554, 556-557
3124.4.3 Be able to find trigonometric ratios of 0°, 90°, 180°, 270° (and any coterminal angles) or identify the values as undefined.	SE/TE: 5.3: 551-552, 554
3124.4.4 Use the definitions of sine, cosine and tangent as ratios of sides in a right triangle to solve problems about lengths of sides and measures of angles.	SE/TE: 5.2: 534-536, 542-544, 5.8: 622-626
3124.4.5 Match a trigonometric equation with its graph.	SE/TE: 5.8: 626-627, 6.5: 684-687, 695
3124.4.6 Know that the trigonometric functions sine, cosine, and tangent can be extended to periodic functions on the real number line.	SE/TE: 5.3: 549-559, 5.4: 562-567, 5.5: 572, 581, 5.6: 593
3124.4.7 Determine the radian measure of an angle and explain how radian measurement is related to a circle of radius 1.	SE/TE: 5.1: 518-528, 5.3: 551-559, 5.4: 562
3124.4.8 Convert from radians to degrees and from degrees to radians.	SE/TE: 5.1: 519-520, 526-527, 5.3: 551-552, 554

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3124.4.9 Calculate the arc length (s) of a circle with radius (r) subtended by a central angle of measure t radians.	SE/TE: 5.1: 526-527
3124.4.10 Use the Law of Cosines and the Law of Sines (including the ambiguous case) to find unknown sides and angles of a triangle.	SE/TE: 7.1: 702-709, 7.2: 714-718
3124.4.11 Apply the Laws of Sines and Cosines to solve a non-right triangle.	SE/TE: 7.1: 702-709, 7.2: 714-718
3124.4.12 Know and use the following trigonometric identities in verifying other identities: Pythagorean, Reciprocal, Quotient, Sum/Difference, Double Angle	SE/TE: 6.1: 642-650, 6.2: 653-660, 6.4: 677-679, 6.5: 689-692
3124.4.13 Know and use the following trigonometric identities in solving trigonometric equations: Pythagorean, Reciprocal, Quotient, Sum/Difference, Double Angle	SE/TE: 6.5: 689-692
3124.4.14 Apply the Pythagorean and Reciprocal Identities to verify identities and solve equations.	SE/TE: 6.1: 642-650, 6.5: 689, 691
3124.4.15 Multiply a vector by a scalar both algebraically and graphically.	SE/TE: 7.6: 761-762, 768
3124.4.16 Add vectors both algebraically and graphically.	SE/TE: 7.6: 764-766, 768-769
3124.4.17 Calculate magnitude and direction of a vector.	SE/TE: 7.6: 760-764, 767-769, 7.7: 779
3124.4.18 Use vectors to model velocity and direction to solve problems.	SE/TE: 7.6: 768-769, 7.7: 778, 780-781
3124.4.19 Graph a trigonometric function and identify characteristics such as period, amplitude, phase shift, and asymptotes.	SE/TE: 5.5: 572-589, 5.6: 593-601, 5.8: 626-627

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Tennessee Mathematics Standards Advanced Algebra & Trigonometry Course #3124	MyMathLab® for School Algebra & Trigonometry, ©2016
3124.4.20 Graph trig functions as well as their reciprocals; also, identify their key characteristics.	SE/TE: 5.5: 572-589, 5.6: 593-601, 5.7: 606-618, 5.8: 626-627
3124.4.21 Develop the relationship between angular velocity and linear velocity; calculate both velocities in the context of pulleys and connected wheels.	SE/TE: 5.1: 528
Standard 5 – Data Analysis, Statistics, & Probability	
Course Level Expectations	
CLE 3124.5.1 Create scatter plots, analyze patterns and describe relationships that exist in a set of linear and non-linear paired data to make predictions.	SE/TE: 2.2: 229, 2.3: 244, 252-254
CLE 3124.5.2 Identify and interpret the correlation coefficient for a linear bivariate data set.	SE/TE: 4.5: 500-501
CLE 3124.5.3 Examine all aspects of using regression equations to act as a model for a real world situation, including interpolation, extrapolation and validity of model.	SE/TE: 2.3: 252-254
Check for Understanding (Formative/Summative Assessment)	
3124.5.1 Construct a scatter plot of a set of paired data.	SE/TE: 2.3: 252-254, 4.5: 499-501
3124.5.2 Explain when it is appropriate to use a regression equation to make predictions.	SE/TE: 2.3: 252-254
3124.5.3 Find the quadratic or exponential regression equations for a data set using a graphing calculator, spreadsheet, and/or estimation.	SE/TE: 4.5: 499-503
3124.5.4 Find the equation of the regression line that best fits data with a linear trend.	SE/TE: 2.3: 244, 252-254

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3124.5.5 Find the regression equation that best fits exponential data.	SE/TE: 4.5: 499-503
3124.5.6 Use a regression equation to make predictions.	SE/TE: 2.3: 252-254, 4.5: 499-503
3124.5.7 Recognize that the correlation coefficient is a number in the interval $[-1, 1]$ that measures the strength of the linear relationship between two variables.	SE/TE: 4.5: 500-501
3124.5.8 Visually estimate the correlation coefficient (e.g., positive or negative, closer to 0, 0.5, or 1.0) of a scatterplot.	SE/TE: 4.5: 500-501
3124.5.9 Recognize and explain the potential errors caused by extrapolating from data.	SE/TE: 2.3: 253-254, 4.5: 501
3124.5.10 Use interpolation to calculate a new data point between two existing data points and identify potential errors.	SE/TE: 4.5: 501
3124.5.11 Use extrapolation to construct new data points that fit a given trend and identify potential errors.	SE/TE: 2.3: 253-254, 4.5: 501