

Correlation Instructions

The Florida Department of Education's Instructional Materials Staff has worked very hard to create a more "user-friendly" bid process. Please follow these instructions for completing the bid workbook so that our end of the process is equally "user-friendly"!

If you have any questions, please contact Diane Vaccari.

Diane.Vaccari@fldoe.org

850-245-0808

Correlation forms (use appropriate form(s) - see directions below)

K-5 Correlation to SSS

6-12 Correlation to Course Description

Correlations Reading Sunshine State Standards Grades 3-5, 6-8 and 9-10

Correlations Math Sunshine State Standards Grades 3-5, 6-8 and 9-10

Deadline for all forms: May 1, 2006, 5:00 PM (hard copy AND electronic version)
See Policies and Procedures for complete Bidder's/Publisher's Checklist and other pertinent information.

General Instructions

- 1 - Read/Print all instructions before you begin, including the Policies and Procedures document.
- 2 - Sheets will only allow you to select unlocked cells that require data entry. Use Tab key to move from cell to cell.
- 3 - Do not rename worksheet tabs.
- 4 - Do not change fonts or font size. Fields should wrap text.
- 5 - You may change row height to accommodate more text in a cell.
- 6 - If you wish to start a new line in the same cell, use ALT +ENTER.
- 7 - To print a sheet, define print area to include the entire area you wish to print. Do a print preview to make sure it is all there. Then print.

Correlations

- 1- There are four types of correlation forms:
 1. K-5 Correlation to SSS required for K-5 submissions
 2. 6-12 Correlation to Course Description required for 6-12 submissions*
 3. Correlations Reading Sunshine State Standards Grades 3-5, 6-8 and 9-10 encouraged for submissions where appropriate
 4. Correlations Math Sunshine State Standards Grades 3-5, 6-8 and 9-10 encouraged for submissions where appropriate
- *Please note for Advanced Placement courses must be correlated to Florida Course descriptions and the topic outline/course requirements listed in College Board Course Description (Acorn book) on this form.

- 2- To determine which type of Correlation is needed, see the Link to Curriculum Requirements/Sunshine State Standards for each course found in the Specifications document.
- 3- Enter data requested on appropriate Correlation Worksheet(s).
An example correlation is available for download at our website - use it as a guide.
- 4- Print Correlation Worksheet(s).

**CORRELATION
 FLORIDA DEPARTMENT OF EDUCATION
 READING ASSESSED SUNSHINE STATE STANDARDS BENCHMARKS
 GRADES 3-5**

SUBJECT:
COURSE NAME:
SUBMISSION TITLE:
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GRADE(S):

COURSE CODE NUMBER:

ASSESSED BENCHMARK	PAGE(S) OR LOCATION(S) WHERE TAUGHT IN MAJOR TOOL I/M*	PAGE(S) OR LOCATION(S) FOR FOCUS/MINI LESSONS	Pages or Locations for TUTORIALS	Pages or Locations for ENRICHMENTS	Pages or Locations for MINI ASSESSMENTS
LA.A.1.2.3 Uses simple strategies to determine meaning and increase vocabulary for reading, including the use of prefixes, suffixes, root words, multiple meanings, antonyms, synonyms, and word relationships. Grades 3, 4, 5 MC					
LA.A.2.2.1 Reads text and determines the main idea or essential message, identifies relevant supporting details and facts, and arranges events in chronological order. Grades 3, 5 MC Grade 4 MC, SR, ER					
LA.A.2.2.2 Identifies the author's purpose in a simple text. Grades 3, 5 MC Grade 4 MC, SR					
LA.A.2.2.3 Recognizes when a text is primarily intended to persuade. (Assessed with A.2.2.2)					

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LA.E.1.2.2 Understands the development of plot and how conflicts are resolved in a story. Grades 3, 5 MC Grade 4 MC, SR (Assessed with literary text only)					
LA.A.2.2.7 Recognizes the use of comparison and contrast in a text. Grades 3, 5 MC Grade 4 MC, SR					
LA.E.1.2.3 Knows the similarities and differences among the characters, settings, and events presented in various texts. Grades 3, 5 MC Grade 4 MC, SR, ER					
LA.E.2.2.1 Recognizes cause-and-effect relationships in literary texts. [Applies to fiction, nonfiction, poetry, and drama.] Grades 3, 5 MC Grade 4 MC, SR					

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LA.A.2.2.8 Selects and uses a variety of appropriate reference materials, including multiple representations of information such as maps, charts, and photos, to gather information for research projects.					
LA.A.2.2.5 Reads and organizes information for a variety of purposes, including making a report, conducting interviews, taking a test, and performing an authentic task. (Assessed with A.2.2.8)					

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 GRADES 6-8**

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LA.A.1.3.2 Uses a variety of strategies to analyze words and text, draw conclusions, use context and word structure clues, and recognize organizational patterns. Grades 6, 7 MC Grade 8 MC, SR					
LA.A.2.3.1 Determines the main idea or essential message in a text and identifies relevant details and facts and patterns of organization. Grades 6, 7 MC Grade 8 MC, SR, ER					
LA.A.2.3.2 Identifies the author's purpose and/or point of view in a variety of texts and uses the information to construct meaning. Grades 6, 7 MC Grade 8 MC, SR					
LA.A.2.2.2 Identifies the author's purpose in a simple text. (Assessed with A.2.3.2)					

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LA.A.2.2.3 Recognizes when a text is primarily intended to persuade. (Assessed with A.2.3.2)					
LA.E.2.3.1 Understands how character and plot development, point of view, and tone are used in various selections to support a central conflict or story line. Grades 6, 7 MC Grade 8 MC, SR, ER (Assessed with literary text only)					
LA.E.1.3.2 Recognizes complex elements of plot, including setting, character development, conflicts, and resolutions. (Assessed with E.2.3.1)					
LA.A.2.2.7 Recognizes the use of comparison and contrast in a text. Grades 6,7 MC Grade 8 MC, SR, ER					

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LA.E.2.2.1 Recognizes cause-and-effect relationships in literary texts. [Applies to fiction, nonfiction, poetry, and drama.] Grades 6, 7 MC Grade 8 MC, SR					
LA.A.2.3.8 Checks the validity and accuracy of information obtained from research, in such ways as differentiating fact and opinion, identifying strong vs. weak arguments, and recognizing that personal values influence the conclusions an author draws. Grades 6, 7 MC Grade 8 MC, SR					

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LA.A.2.3.5 Locates, organizes, and interprets written information for a variety of purposes, including classroom research, collaborative decision-making, and performing a school or real-world task. Grades 6, 7 MC Grade 8 MC, SR, ER					
LA.A.2.3.6 Uses a variety of reference materials, including indexes, magazines, newspapers, and journals, and tools, including card catalogs and computer catalogs, to gather information for research projects. (Assessed with A.2.3.5)					

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LA.A.2.3.7 Synthesizes and separates collected information into useful components using a variety of techniques, such as source cards, note cards, spreadsheets, and outlines. (Assessed with A.2.3.5)					

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LA.A.1.4.2 Selects and uses strategies to understand words and text, and to make and confirm inferences from what is read, including interpreting diagrams, graphs, and statistical illustrations. Grade 9 MC Grade 10 MC, SR					
LA.A.2.4.1 Determines the main idea and identifies relevant details, methods of development, and their effectiveness in a variety of types of written material. Grade 9 MC Grade 10 MC, SR, ER					
LA.A.2.4.2 Determines the author's purpose and point of view and their effects on the text. (Includes LA.A.2.4.5 Identifies devices of persuasion and methods of appeal and their effectiveness.) Grade 9 MC Grade 10 MC, SR, ER					

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LA.E.2.4.1 Analyzes the effectiveness of complex elements of plot, such as setting, major events, problems, conflicts, and resolutions. Grade 9 MC Grade 10 MC, SR, ER					
LA.A.2.2.7 Recognizes the use of comparison and contrast in a text. Grade 9 MC Grade 10 MC, SR					
LA.E.2.2.1 Recognizes cause-and-effect relationships in literary texts. [Applies to fiction, nonfiction, poetry, and drama.] Grade 9 MC Grade 10 MC, SR					

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LA.A.2.4.7 Analyzes the validity and reliability of primary source information and uses the information appropriately. Grade 9 MC Grade 10 MC, SR, ER (Assessed with informational text only)					
LA.A.2.4.4 Locates, gathers, analyzes, and evaluates written information for a variety of purposes, including research projects, real-world tasks, and self-improvement. Grade 9 MC Grade 10 MC, SR, ER (Assessed with informational text only)					

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LA.A.2.4.6 Selects and uses appropriate study and research skills and tools according to the type of information being gathered or organized, including almanacs, government publications, microfiche, news sources, and information services. (Assessed with A.2.4.4)					
LA.A.2.4.8 Synthesizes information from multiple sources to draw conclusions. Grade 9 MC Grade 10 MC, SR, ER					

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 GRADES 3-5**

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MA.A.1.2.1 names whole numbers combining three-digit numeration (hundreds, tens, ones) and the use of number periods, such as ones, thousands, and millions and associates verbal names, written word names, and standard numerals with whole numbers, commonly used fractions, decimals, and percents. (Assessed with A.1.2.4)					
MA.A.1.2.2 understands the relative size of whole numbers, commonly used fractions, decimals, and percents. Grades 3–4 MC Grade 5 MC, GR					

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MA.A.1.2.3 understands concrete and symbolic representations of whole numbers, fractions, decimals, and percents in real-world situations. (Assessed with A.1.2.4)					
MA.A.1.2.4 understands that numbers can be represented in a variety of equivalent forms using whole numbers, decimals, fractions, and percents. (Also assesses A.1.2.1 and A.1.2.3) Grades 3–4 MC Grade 5 MC, GR					
MA.A.2.2.1 uses place-value concepts of grouping based upon powers of ten (thousandths, hundredths, tenths, ones, tens, hundreds, thousands) within the decimal number system. Grades 3–4 MC Grade 5 MC, GR					

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MA.A.3.2.1 understands and explains the effects of addition, subtraction, and multiplication on whole numbers, decimals, and fractions, including mixed numbers, and the effects of division on whole numbers, including the inverse relationship of multiplication and division. MC					
MA.A.3.2.2 selects the appropriate operation to solve specific problems involving addition, subtraction, and multiplication of whole numbers, decimals, and fractions, and division of whole numbers. MC					

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MA.A.3.2.3 adds, subtracts, and multiplies whole numbers, decimals, and fractions, including mixed numbers, and divides whole numbers to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator. Grades 3–4 MC Grade 5 MC, GR					
MA.A.4.2.1 uses and justifies different estimation strategies in a real-world problem situation and determines the reasonableness of results of calculations in a given problem situation. (Also assesses B.3.2.1) Grades 3–4 MC Grade 5 SR					

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MA.A.5.2.1 understands and applies basic number theory concepts, including primes, composites, factors, and multiples. MC					
MA.B.1.2.1 uses concrete and graphic models to develop procedures for solving problems related to measurement including length, weight/mass, time, temperature, perimeter, area, volume/ capacity and angle. Grades 3–4 (Not assessed) Grade 5 (Assessed with C.2.2.1)					
MA.B.1.2.2 solves real-world problems involving length, weight, perimeter, area, capacity, volume, time, temperature, and angles. Grades 3–4 MC Grade 5 MC, GR					

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MA.B.2.2.1 uses direct (measured) and indirect (not measured) measures to calculate and compare measurable characteristics. Grades 3–4 MC Grade 5 MC, GR					
MA.B.2.2.2 selects and uses appropriate standard and nonstandard units of measurement, according to type and size. (Also assesses B.4.2.1) MC					
MA.B.3.2.1 solves real-world problems involving estimates of measurements, including length, time, weight, temperature, money, perimeter, area, and volume. (Assessed with A.4.2.1)					

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MA.B.4.2.1 determines which units of measurement, such as seconds, square inches, dollars per tankful, to use with answers to real-world problems. (Assessed with B.2.2.2)					
MA.B.4.2.2 selects and uses appropriate instruments and technology, including scales, rulers, thermometers, measuring cups, protractors, and gauges, to measure in real-world situations. Grades 3–4 MC Grade 5 (Not assessed)					

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MA.C.1.2.1 given a verbal description, draws and/or models two- and three-dimensional shapes and uses appropriate geometric vocabulary to write a description of a figure or a picture composed of geometric figures. MC					
MA.C.2.2.1 understands the concepts of spatial relationships, symmetry, reflections, congruency, and similarity. (Also assesses B.1.2.1, B.1.2.2, C.1.2.1, and C.3.2.1) Grades 3–4 MC Grade 5 MC, ER					
MA.C.2.2.2 predicts, illustrates, and verifies which figures could result from a flip (reflection), slide (translation), or turn (rotation) of a given figure. MC					

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MA.C.3.2.1 represents and applies a variety of strategies and geometric properties and formulas for two- and three-dimensional shapes to solve real-world and mathematical problems. (Also assesses C.2.2.1 and C.3.2.2) Grades 3–4 MC Grade 5 MC, SR					
MA.C.3.2.2 identifies and plots positive ordered pairs (whole numbers) in a rectangular coordinate system (graph). MC					
MA.D.1.2.1 describes a wide variety of patterns and relationships through models, such as manipulatives, tables, graphs, rules using algebraic symbols. (Also assesses D.1.2.2) Grades 3–4 MC Grade 5 MC, GR					

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MA.D.1.2.2 generalizes a pattern, relation, or function to explain how a change in one quantity results in a change in another. (Also assesses D.1.2.1) Grades 3–4 (Not assessed) Grade 5 SR					
MA.D.2.2.1 represents a given simple problem situation using diagrams, models, and symbolic expressions translated from verbal phrases, or verbal phrases translated from symbolic expressions, etc. (Also assesses D.2.2.2) MC					
MA.D.2.2.2 uses informal methods, such as physical models and graphs, to solve real-world problems involving equations and inequalities. (Also assesses D.2.2.1) Grades 3–4 MC Grade 5 MC, GR					

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MA.E.1.2.1 solves problems by generating, collecting, organizing, displaying, and analyzing data using histograms, bar graphs, circle graphs, line graphs, pictographs, and charts. (Also assesses E.1.2.3) Grades 3–4 MC Grade 5 MC, GR, ER					
MA.E.1.2.2 determines range, mean, median, and mode from sets of data. (Also assesses E.1.2.3) Grades 3–4 MC Grade 5 MC, GR					

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MA.E.1.2.3 analyzes real-world data to recognize patterns and relationships of the measures of central tendency using tables, charts, histograms, bar graphs, line graphs, pictographs, and circle graphs generated by appropriate technology, including calculators and computers. (Assessed with E.1.2.1 and E.1.2.2)					
MA.E.2.2.1 uses models, such as tree diagrams, to display possible outcomes and to predict events. Grades 3–4 MC Grade 5 SR					
MA.E.2.2.2 predicts the likelihood of simple events occurring. MC					

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MA.E.3.2.1 designs experiments to answer class or personal questions, collects information, and interprets the results using statistics (range, mean, median, and mode) and pictographs, charts, bar graphs, circle graphs, and line graphs. (Also assesses E.3.2.2) Grades 3–4 (Not assessed) Grade 5 MC					
MA.E.3.2.2 uses statistical data about life situations to make predictions and justifies reasoning. Grades 3–4 (Not assessed) Grade 5 (Assessed with E.3.2.1)					

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MA.A.1.3.1 associates verbal names, written word names, and standard numerals with integers, fractions, decimals; numbers expressed as percents; numbers with exponents; numbers in scientific notation; radicals; absolute value; and ratios. (Assessed with A.1.3.4)					
MA.A.1.3.2 understands the relative size of integers, fractions, and decimals; numbers expressed as percents; numbers with exponents; numbers in scientific notation; radicals; absolute value; and ratios. MC					

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MA.A.1.3.3 understands concrete and symbolic representations of rational numbers and irrational numbers in real-world situations. (Assessed with A.1.3.4 and D.2.3.1)					
MA.A.1.3.4 understands that numbers can be represented in a variety of equivalent forms, including integers, fractions, decimals, percents, scientific notation, exponents, radicals, and absolute value. (Also assesses A.1.3.1 and A.1.3.3) MC, GR					
MA.A.2.3.1 understands and uses exponential and scientific notation. MC, GR					

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MA.A.2.3.2 understands the structure of number systems other than the decimal number system. (Not assessed)					
MA.A.3.3.1 understands and explains the effects of addition, subtraction, multiplication, and division on whole numbers, fractions, including mixed numbers, and decimals, including the inverse relationships of positive and negative numbers. MC					
MA.A.3.3.2 selects the appropriate operation to solve problems involving addition, subtraction, multiplication, and division of rational numbers, ratios, proportions, and percents, including the appropriate application of the algebraic order of operations. MC, GR					

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MA.A.3.3.3 adds, subtracts, multiplies, and divides whole numbers, decimals, and fractions, including mixed numbers, to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator. MC, GR					
MA.A.4.3.1 uses estimation strategies to predict results and to check the reasonableness of results. (Also assesses A.4.2.1, B.2.3.1, and B.3.3.1) MC					
MA.A.5.3.1 uses concepts about numbers, including primes, factors, and multiples, to build number sequences. (Assessed with D.1.3.1 and D.1.3.2)					

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MA.B.1.3.1 uses concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, and volume of two-and three-dimensional shapes, including rectangular solids and cylinders. (Also assesses B.1.2.2 and B.2.3.1) Grades 6–7 MC, GR Grade 8 GR, SR					
MA.B.1.3.2 uses concrete and graphic models to derive formulas for finding rates, distance, time, and angle measures. (Also assesses B.1.2.2 and B.2.3.1) Grade 6 (Assessed with C.1.3.1) Grades 7–8 MC, GR					

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MA.B.1.3.3 understands and describes how the change of a figure in such dimensions as length, width, height, or radius affects its other measurements such as perimeter, area, surface area, and volume. (Also assesses C.2.3.1) MC, GR					
MA.B.1.3.4 constructs, interprets, and uses scale drawings such as those based on number lines and maps to solve real-world problems. (Also assesses B.2.3.1) MC, GR					
MA.B.2.3.1 uses direct (measured) and indirect (not measured) measures to compare a given characteristic in either metric or customary units. (Assessed with A.4.3.1, B.1.3.1, B.1.3.2, and B.1.3.4)					

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MA.B.2.3.2 solves problems involving units of measure and converts answers to a larger or smaller unit within either the metric or customary system. MC, GR					
MA.B.3.3.1 solves real-world and mathematical problems involving estimates of measurements including length, time, weight/mass, temperature, money, perimeter, area, and volume, in either customary or metric units. (Assessed with A.4.3.1)					
MA.C.1.3.1 understands the basic properties of, and relationships pertaining to, regular and irregular geometric shapes in two and three dimensions. (Also assesses C.1.2.1) MC					

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MA.C.2.3.1 understands the geometric concepts of symmetry, reflections, congruency, similarity, perpendicularity, parallelism, and transformations, including flips (reflections), slides (translations), turns (rotations), and enlargements. (Also assesses B.1.3.3, C.1.2.1, C.1.3.1, and C.3.3.1) Grades 6–7 MC Grade 8 MC, ER					
MA.C.2.3.2 predicts and verifies patterns involving tessellations (a covering of a plane with congruent copies of the same pattern with no holes and no overlaps, like floor tiles). (Assessed with C.3.3.1)					

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MA.C.3.3.1 represents and applies geometric properties and relationships to solve real-world and mathematical problems. (Also assesses C.2.3.1, C.2.3.2, and C.3.2.2) Grade 6 MC Grade 7 MC, GR Grade 8 MC, SR					
MA.C.3.3.2 identifies and plots ordered pairs in all four quadrants of a rectangular coordinate system (graph) and applies simple properties of lines. MC					
MA.D.1.3.1 describes a wide variety of patterns, relationships, and functions through models, such as manipulatives, tables, graphs, expressions, equations, and inequalities. (Also assesses A.5.3.1) MC, GR					

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MA.D.1.3.2 creates and interprets tables, graphs, equations, and verbal descriptions to explain cause-and-effect relationships. (Also assesses A.5.3.1) Grades 6–7 MC, GR Grade 8 MC, GR, SR					
MA.D.2.3.1 represents and solves real-world problems graphically, with algebraic expressions, equations, and inequalities. (Also assesses A.1.3.3) Grades 6–7 MC Grade 8 MC, SR					
MA.D.2.3.2 uses algebraic problem-solving strategies to solve real-world problems involving linear equations and inequalities. MC, GR					

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MA.E.1.3.1 collects, organizes, and displays data in a variety of forms, including tables, line graphs, charts, bar graphs, to determine how different ways of presenting data can lead to different interpretations. (Also assesses E.1.3.3) Grades 6–7 MC, GR Grade 8 MC, GR, ER					
MA.E.1.3.2 understands and applies the concepts of range and central tendency (mean, median, and mode). (Also assesses E.1.3.3) MC, GR					

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MA.E.1.3.3 analyzes real-world data by applying appropriate formulas for measures of central tendency and organizing data in a quality display, using appropriate technology, including calculators and computers. (Assessed with E.1.3.1 and E.1.3.2)					
MA.E.2.3.1 compares experimental results with mathematical expectations of probabilities. MC					
MA.E.2.3.2 determines odds for and odds against a given situation. (Also assesses E.2.2.2) MC					

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MA.E.3.3.1 formulates hypotheses, designs experiments, collects and interprets data, and evaluates hypotheses by making inferences and drawing conclusions based on statistics (range, mean, median, and mode) and tables, graphs, and charts. (Also assesses E.3.3.2) MC					
MA.E.3.3.2 identifies the common uses and misuses of probability and statistical analysis in the everyday world. (Assessed with E.3.3.1)					

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MA.A.1.4.1 associates verbal names, written word names, and standard numerals with integers, rational numbers, irrational numbers, real numbers, and complex numbers. (Assessed with A.1.4.4)					
MA.A.1.4.2 understands the relative size of integers, rational numbers, irrational numbers, and real numbers. MC					
MA.A.1.4.3 understands concrete and symbolic representations of real and complex numbers in real-world situations. (Assessed with A.1.4.4)					

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MA.A.1.4.4 understands that numbers can be represented in a variety of equivalent forms, including integers, fractions, decimals, percents, scientific notation, exponents, radicals, absolute value, and logarithms. (Also assesses A.1.4.1 and A.1.4.3) MC, GR					
MA.A.2.4.1 understands and uses the basic concepts of limits and infinity. (Not assessed)					
MA.A.2.4.2 understands and uses the real number system. (Assessed with A.3.4.1, A.3.4.2, and A.3.4.3)					

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MA.A.2.4.3 understands the structure of the complex number system. (Not assessed)					
MA.A.3.4.1 understands and explains the effects of addition, subtraction, multiplication, and division on real numbers, including square roots, exponents, and appropriate inverse relationships. (Also assesses A.2.4.2) MC					

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MA.A.3.4.2 selects and justifies alternative strategies, such as using properties of numbers, including inverse, identity, distributive, associative, transitive, that allow operational shortcuts for computational procedures in real-world or mathematical problems. (Also assesses A.2.4.2. and A.3.3.2) MC					
MA.A.3.4.3 adds, subtracts, multiplies, and divides real numbers, including square roots and exponents, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator. (Also assesses A.2.4.2) MC, GR					

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MA.A.4.4.1 uses estimation strategies in complex situations to predict results and to check the reasonableness of results. (Also assesses A.4.2.1 and B.3.4.1) MC					
MA.B.1.4.1 uses concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, and volume of two- and three-dimensional shapes, including rectangular solids, cylinders, cones, and pyramids. (Also assesses B.1.2.2 and B.1.4.2) Grade 9 MC, GR Grade 10 MC, GR, SR					

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MA.B.1.4.2 uses concrete and graphic models to derive formulas for finding rate, distance, time, angle measures, and arc lengths. (Also assesses B.1.2.2) MC, GR					
MA.B.1.4.3 relates the concepts of measurement to similarity and proportionality in real-world situations. Grade 9 MC, GR Grade 10 (Assessed with C.2.4.1)					
MA.B.2.4.1 selects and uses direct (measured) or indirect (not measured) methods of measurement as appropriate. Grade 9 MC, GR Grade 10 MC					
MA.B.2.4.2 solves real-world problems involving rated measures (miles per hour, feet per second). (Also assesses B.2.3.2) MC, GR					

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MA.B.3.4.1 solves real-world and mathematical problems involving estimates of measurements, including length, time, weight/mass, temperature, money, perimeter, area, and volume, and estimates the effects of measurement errors on calculations. (Assessed with A.4.4.1)					
MA.B.4.4.2 selects and uses appropriate instruments, technology, and techniques to measure quantities in order to achieve specified degrees of accuracy in a problem situation. (Not assessed)					

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MA.C.1.4.1 uses properties and relationships of geometric shapes to construct formal and informal proofs. (Also assesses C.1.2.1 and C.1.3.1) MC, GR					
MA.C.2.4.1 understands geometric concepts such as perpendicularity, parallelism, tangency, congruency, similarity, reflections, symmetry, and transformations including flips (reflections), slides (translations), turns (rotations), enlargements, rotations, and fractals. (Also assesses B.1.4.3, C.1.4.1, and C.3.4.1) Grade 9 MC, GR Grade 10 MC, GR, ER					

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MA.C.2.4.2 analyzes and applies geometric relationships involving planar cross-sections (the intersection of a plane and a three-dimensional figure). Grade 9 (Not assessed) Grade 10 MC					
MA.C.3.4.1 represents and applies geometric properties and relationships to solve real-world and mathematical problems including ratio, proportion, and properties of right triangle trigonometry. (Also assesses C.2.4.1) MC, GR					

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MA.C.3.4.2 using a rectangular coordinate system (graph), applies and algebraically verifies properties of two- and three-dimensional figures, including distance, midpoint, slope, parallelism, and perpendicularity. (Also assesses C.3.3.2 and D.2.4.1) Grade 9 MC, GR Grade 10 MC, GR, SR					
MA.D.1.4.1 describes, analyzes, and generalizes relationships, patterns, and functions using words, symbols, variables, tables, and graphs. MC, GR					
MA.D.1.4.2 determines the impact when changing parameters of given functions. Grade 9 MC, GR Grade 10 MC, GR, SR					

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MA.D.2.4.1 represents real-world problem situations using finite graphs, matrices, sequences, series, and recursive relations. (Assessed with C.3.4.2 and D.2.4.2)					
MA.D.2.4.2 uses systems of equations and inequalities to solve real-world problems graphically, algebraically, and with matrices. (Also assesses D.2.3.1, D.2.3.2, and D.2.4.1) Grade 9 MC, GR Grade 10 MC, GR, SR					
MA.E.1.4.1 interprets data that has been collected, organized, and displayed in charts, tables, and plots. (Also assesses E.1.3.1 and E.1.4.3) Grade 9 MC, GR Grade 10 MC, GR, ER					

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SUBMISSION TITLE:
PUBLISHER:
GRADE(S):

COURSE CODE NUMBER:

ASSESSED BENCHMARK	PAGE(S) OR LOCATION(S) WHERE TAUGHT IN MAJOR TOOL I/M*	PAGE(S) OR LOCATION(S) FOR FOCUS/MINI LESSONS	Pages or Locations for TUTORIALS	Pages or Locations for ENRICHMENTS	Pages or Locations for MINI ASSESSMENTS
MA.E.1.4.2 calculates measures of central tendency (mean, median, and mode) and dispersion (range, standard deviation, and variance) for complex sets of data and determines the most meaningful measure to describe the data. (Also assesses E.1.4.3) MC, GR					
MA.E.1.4.3 analyzes real-world data and makes predictions of larger populations by applying formulas to calculate measures of central tendency and dispersion using the sample population data, and using appropriate technology, including calculators and computers. (Assessed with E.1.4.1 and E.1.4.2)					

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MA.E.2.4.1 determines probabilities using counting procedures, tables, tree diagrams, and formulas for permutations and combinations. (Also assesses E.2.4.2) MC, GR					
MA.E.2.4.2 determines the probability for simple and compound events as well as independent and dependent events. (Assessed with E.2.4.1)					
MA.E.3.4.1 designs and performs real-world statistical experiments that involve more than one variable, then analyzes results and reports findings. (Also assesses E.3.3.1 and E.3.4.2) MC					

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MA.E.3.4.2 explains the limitations of using statistical techniques and data in making inferences and valid arguments. (Assessed with E.3.4.1)					