

Georgia Standards of Excellence Curriculum Map

Mathematics

GSE Analytic Geometry



Richard Woods, Georgia's School Superintendent "Educating Georgia's Future"

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| GSE Analytic Geometry Curriculum Map | | | | | | |
|--|------------------------------|-----------------------|-----------------------|-------------------------------------|----------------------|--------------------|
| 1 st Semester 2 nd Semester | | | | | | |
| | ck on the link in the | table to view a video | o that shows instruct | tional strategies for t | eaching each standa | <mark>rd.</mark> |
| Unit 1 | Unit 2 | Unit 3 | Unit 4 | Unit 5 | Unit 6 | Unit 7 |
| (6 – 7 weeks) | (2-3 weeks) | (4-5 weeks) | (2-3 weeks) | (7 – 8 weeks) | (4-5 weeks) | (4-5 weeks) |
| <u>Similarity,</u> | <u>Right Triangle</u> | Circles and | Extending the | Quadratic | Geometric and | Applications of |
| Congruence, and | Trigonometry | Volume | Number System | Functions | <u>Algebraic</u> | Probability |
| Proofs | | | | | Connections | |
| MGSE9-12.G.SRT.1 | MGSE9-12.G.SRT.6 | MGSE9-12.G.C.1 | MGSE9-12.N.RN.2 | MGSE9-12.A.SSE.1 | MGSE9-12.G.GPE.1 | MGSE9-12.S.CP.1 |
| MGSE9-12.G.SRT.2 | MGSE9-12.G.SRT.7 | MGSE9-12.G.C.2 | MGSE9-12.N.RN.3 | MGSE9-12.A.SSE.1a | MGSE9-12.G.GPE.4 | MGSE9-12.S.CP.2 |
| MGSE9-12.G.SRT.3 | MGSE9-12.G.SRT.8 | MGSE9-12.G.C.3 | MGSE9-12.A.APR.1 | MGSE9-12.A.SSE.1b | MGSE9-12.G.MG.1 | MGSE9-12.S.CP.3 |
| MGSE9-12.G.SRT.4 | | MGSE9-12.G.C.4 | | MGSE9-12.A.SSE.2 | MGSE9-12.G.MG.2 | MGSE9-12.S.CP.4 |
| MGSE9-12.G.SRT.5 | | MGSE9-12.G.C.5 | | MGSE9-12.A.SSE.3 | MGSE9-12.G.MG.3 | MGSE9-12.S.CP.5 |
| MGSE9-12.G.CO.6 | | MGSE9-12.G.GMD.1 | | MGSE9-12.A.SSE.3a | | MGSE9-12.S.CP.6 |
| MGSE9-12.G.CO.7 | | MGSE9-12.G.GMD.2 | | MGSE9-12.A.SSE.3b | | MGSE9-12.S.CP.7 |
| MGSE9-12.G.CO.8 | | MGSE9-12.G.GMD.3 | | MGSE9-12.A.CED.1 | | |
| MGSE9-12.G.CO.9 | | MGSE9-12.G.GMD.4 | | MGSE9-12.A.CED.2 | | |
| MGSE9-12.G.CO.10 | | | | MGSE9-12.A.CED.4 | | |
| MGSE9-12.G.CO.11 | | | | MGSE9-12.A.REI.4 | | |
| MGSE9-12.G.CO.12 | | | | MGSE9-12.A.REI.4a | | |
| MGSE9-12.G.CO.13 | | | | MGSE9-12.A.REI.4b | | |
| MGSE9-12.G.GPE.4 | | | | MGSE9-12.F.IF.4 | | |
| | | | | MGSE9-12.F.IF.5 | | |
| | | | | MGSE9-12.F.IF.6 | | |
| | | | | MGSE9-12.F.IF.7 | | |
| | | | | MGSE9-12.F.IF.7a | | |
| | | | | MGSE9-12.F.IF.8 | | |
| | | | | MGSE9-12.F.IF.8a | | |
| | | | | MGSE9-12.F.IF.9 | | |
| | | | | MGSE9-12.F.BF.1 | | |
| | | | | MGSE9-12.F.BF.1a | | |
| | | | | MGSE9-12.F.BF.3 | | |
| | | | | MCSE9-12.F.LE.5 | | |
| | | | | MCSE9-12.5.ID.0 MCSE9-12 S ID 60 | | |
| | | | | 1000127-12-0-117-0a | | |
| These units were written to build upon concepts from prior units so later units contain tasks that depend upon the concepts addressed in earlier units | | | | | | |
| All units will include the Mathematical Practices and indicate skills to maintain. | | | | | | |

NOTE: Mathematical standards are interwoven and should be addressed throughout the year in as many different units and tasks as possible in order to stress the natural connections that exist among mathematical topics. Grade 9-12 Key:

Number and Quantity Strand: RN = The Real Number System, Q = Quantities, CN = Complex Number System, VM = Vector and Matrix Quantities

Algebra Strand: SSE = Seeing Structure in Expressions, APR = Arithmetic with Polynomial and Rational Expressions, CED = Creating Equations, REI = Reasoning with Equations and Inequalities

Functions Strand: IF = Interpreting Functions, LE = Linear and Exponential Models, BF = Building Functions, TF = Trigonometric Functions

Geometry Strand: CO = Congruence, SRT = Similarity, Right Triangles, and Trigonometry, C = Circles, GPE = Expressing Geometric Properties with Equations, GMD = Geometric Measurement and Dimension, MG = Modeling with Geometry

Statistics and Probability Strand: ID = Interpreting Categorical and Quantitative Data, IC = Making Inferences and Justifying Conclusions, CP = Conditional Probability and the Rules of Probability, MD = Using Probability to Make Decisions

Georgia Department of Education

Georgia Standards of Excellence Analytic Geometry Curriculum Map Rationale

<u>Unit 1</u>: Building on standards from Coordinate Algebra and from middle school, students will use transformations and proportional reasoning to develop a formal understanding of similarity and congruence. Students will identify criteria for similarity and congruence of triangles, develop facility with geometric proofs (variety of formats), and use the concepts of similarity and congruence to prove theorems involving lines, angles, triangles, and other polygons.

<u>Unit 2</u>: Students will apply similarity in right triangles to understand right triangle trigonometry. Students will use the Pythagorean Theorem and the relationship between the sine and cosine of complementary angles to solve problems involving right triangles.

<u>Unit 3</u>: Students will understand and apply theorems about circles, find arc lengths of circles, and find areas of sectors of circles. Students will develop and explain formulas related to circles and the volume of solid figures and use the formulas to solve problems. Building on standards from middle school, students will extend the study of identifying cross-sections of three-dimensional shapes to identifying three-dimensional objects generated by rotations of two-dimensional objects.

<u>Unit 4</u>: Students will address properties of rational and irrational numbers, rewrite expressions involving radicals, and perform operations on polynomials in preparation for working with quadratic functions later in the course.

<u>Unit 5</u>: Students will analyze quadratic functions. Students will investigate key features of graphs, solve quadratic equations by taking the square roots, factoring $(x^2 + bx + c \text{ AND } ax^2 + bx + c)$, completing the square, and using the quadratic formula. Students will compare and contrast graphs in standard, vertex, and intercept forms. Students will only work with real number solutions.

<u>Unit 6</u>: Students will verify algebraically geometric relationships of circles in the coordinate plane. Students will derive the equation of a circle and model real-world objects using geometric shapes and concepts.

Unit 7: Students will understand independence and conditional probability and use them to interpret data. Building on standards from middle school, students will formalize the rules of probability and use the rules to compute probabilities of compound events in a uniform probability model.

| GSE Analytic Geometry Expanded Curriculum Map – 1 st Semester | | | | |
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| Standards for Mathematical Practice | | | | |
| 1 Make sense of problems and persevere in solving | them. | 5 Use appropriate tools strategically. | | |
| 2 Reason abstractly and quantitatively. | | 6 Attend to precision. | | |
| 3 Construct viable arguments and critique the reaso | oning of others. | 7 Look for and make use of structure. | | |
| 4 Model with mathematics. | C . | 8 Look for and express regularity in repeated rea | soning. | |
| | 1 st Ser | nester | ž | |
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| Unit 1 | Unit 2 | Unit 3 | Unit 4 | |
| Similarity, Congruence, and Proofs | Right Triangle Trigonometry | Circles and Volume | Extending the Number System | |
| Understand similarity in terms of similarity | Define trigonometric ratios and solve | Understand and apply theorems about | Extend the properties of exponents to | |
| transformations | problems involving right triangles | circles | rational exponents. | |
| MGSE9-12.G.SRT.1 Verify experimentally the | MGSE9-12.G.SRT.6 Understand that by | MGSE9-12.G.C.1 Understand that all circles | MGSE9-12.N.RN.2 Rewrite expressions | |
| properties of dilations given by a center and a | similarity, side ratios in right triangles are | are similar. | involving radicals and rational exponents | |
| scale factor. | properties of the angles in the triangle, | MGSE9-12.G.C.2 Identify and describe | using the properties of exponents. (i.e., | |
| a. The dilation of a line not passing through | leading to definitions of trigonometric | relationships among inscribed angles, radii, | simplify and/or use the operations of addition, | |
| the center of the dilation results in a parallel | ratios for acute angles. | chords, tangents, and secants. Include the | subtraction, and multiplication, with radicals | |
| line and leaves a line passing through the | MGSE9-12.G.SRT.7 Explain and use the | relationship between central, inscribed, and | within expressions limited to square roots). | |
| center unchanged. | relationship between the sine and cosine of | circumscribed angles; inscribed angles on a | Use properties of rational and irrational | |
| b. The dilation of a line segment is longer or | complementary angles. | diameter are right angles; the radius of a circle | numbers. | |
| shorter according to the ratio given by the | MGSE9-12.G.SRT.8 Use trigonometric | is perpendicular to the tangent where the | MGSE9-12.N.RN.3 Explain why the sum or | |
| scale factor. | ratios and the Pythagorean Theorem to | radius intersects the circle. | product of rational numbers is rational; why | |
| MGSE9-12.G.SRT.2 Given two figures, use the | solve right triangles in applied problems. | MGSE9-12.G.C.3 Construct the inscribed and | the sum of a rational number and an irrational | |
| definition of similarity in terms of similarity | | circumscribed circles of a triangle, and prove | number is irrational; and why the product of a | |
| transformations to decide if they are similar; | | properties of angles for a quadrilateral | nonzero rational number and an irrational | |
| explain, using similarity transformations, the | | inscribed in a circle. | number is irrational. | |
| meaning of similarity for triangles as the equality | | MGSE9-12.G.C.4 Construct a tangent line | Perform arithmetic operations on | |
| of all corresponding pairs of angles and the | | from a point outside a given circle to the | polynomials | |
| proportionality of all corresponding pairs of | | circle. | MGSE9-12.A.APR.1 Add, subtract, and | |
| sides. | | Find arc lengths and areas of sectors of | multiply polynomials; understand that | |
| MGSE9-12.G.SRT.3 Use the properties of | | <u>circles</u> | polynomials form a system analogous to the | |
| similarity transformations to establish the AA | | MGSE9-12.G.C.5 Derive using similarity the | integers in that they are closed under these | |
| criterion for two triangles to be similar. | | fact that the length of the arc intercepted by an | operations. | |
| <u>Prove theorems involving similarity</u> MCSE0 12 C SPT 4 Prove theorems about | | angle is proportional to the radius, and define the radion measure of the angle as the constant | | |
| triangles. Theorems include: a line parallel to one | | of proportionality: derive the formula for the | | |
| side of a triangle divides the other two | | area of a sector. | | |
| proportionally (and its converse): the | | Explain volume formulas and use them to | | |
| Pythagorean Theorem using triangle similarity. | | solve problems | | |
| MGSE9-12.G.SRT.5 Use congruence and | | MGSE9-12.G.GMD.1 Give informal | | |
| similarity criteria for triangles to solve problems | | arguments for geometric formulas. | | |
| and to prove relationships in geometric figures. | | a. Give informal arguments for the formulas | | |
| Understand congruence in terms of rigid | | of the circumference of a circle and area | | |
| motions | | of a circle using dissection arguments and | | |
| MGSE9-12.G.CO.6 Use geometric descriptions | | informal limit arguments. | | |
| of rigid motions to transform figures and to | | b. Give informal arguments for the formula | | |
| predict the effect of a given rigid motion on a | | of the volume of a cylinder, pyramid, and | | |

given figure; given two figures, use the definition of congruence in terms of rigid motions to decide if they are congruent.

MGSE9-12.G.CO.7 Use the definition of congruence in terms of rigid motions to show that two triangles are congruent if and only if corresponding pairs of sides and corresponding pairs of angles are congruent.

MGSE9-12.G.CO.8 Explain how the criteria for triangle congruence (ASA, SAS, and SSS) follow from the definition of congruence in terms of rigid motions. (Extend to include HL and AAS.) Prove geometric theorems

MGSE9-12.G.CO.9 Prove theorems about lines and angles. Theorems include: vertical angles are congruent; when a transversal crosses parallel lines, alternate interior angles are congruent and corresponding angles are congruent; points on a perpendicular bisector of a line segment are exactly those equidistant from the segment's endpoints.

MGSE9-12.G.CO.10 Prove theorems about triangles. Theorems include: measures of interior angles of a triangle sum to 180 degrees; base angles of isosceles triangles are congruent; the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length; the medians of a triangle meet at a point. MGSE9-12.G.CO.11 Prove theorems about parallelograms. Theorems include: opposite sides are congruent, opposite angles are congruent, the diagonals of a parallelogram bisect each other, and conversely, rectangles are parallelograms with congruent diagonals.

Make geometric constructions

MGSE9-12.G.CO.12 Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.). Copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on the line. MGSE9-12.G.CO.13 Construct an equilateral

MGSE9-12.G.CO.13 Construct an equilateral triangle, a square, and a regular hexagon, each inscribed in a circle.

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| ai ui | | |
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| | cone using Cavalieri's principle. | |
| | MGSE9-12.G.GMD.2 Give an informal | |
| | argument using Cavalieri's principle for the | |
| | formulas for the volume of a sphere and other | |
| | solid figures. | |
| | MGSE9-12.G.GMD.3 Use volume formulas | |
| | for cylinders, pyramids, cones, and spheres to | |
| | solve problems. | |
| | Visualize relationships between two- | |
| | dimensional and three-dimensional objects | |
| | MGSE9-12.G.GMD.4 Identify the shapes of | |
| | two-dimensional cross-sections of three- | |
| | dimensional objects, and identify three- | |
| | dimensional objects generated by rotations of | |
| | two-dimensional objects. | |
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| theorems algebraically | | |
| MGSE9-12.G.GPE.4 Use coordinates to prove | | |
| simple geometric theorems algebraically. For | | |
| example, prove or disprove that a figure defined | | |
| by four given points in the coordinate plane is a | | |
| rectangle; prove or disprove that the point (1, | | |
| $\sqrt{3}$ lies on the circle centered at the origin and | | |
| containing the point (0,2). | | |
| (Focus on quadrilaterals, right triangles, and | | |
| circles.) | | |
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| GSE Analytic Geometry Expanded Curriculum Map – 2 nd Semester | | | | | |
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| Standards for Mathematical Practice | | | | | |
| Make sense of problems and persevere in solving them. Reason abstractly and quantitatively. Construct viable arguments and critique the reasoning of others. | 5 Use appropriate tools strategically. 6 Attend to precision. 7 Look for and make use of structure. | | | | |
| 4 Model with mathematics. | 8 Look for and express regularity | ty in repeated reasoning. | | | |
| 2 nd Semester | | | | | |
| | | | | | |
| Unit 5 | Unit 6 | Unit 7 | | | |
| Quadratic Functions | Geometric and Algebraic Connections | Applications of Probability | | | |
| Interpret the structure of expressions MGSE9-12.A.SSE.1 Interpret expressions that represent a quantity in terms of its context. MGSE9-12.A.SSE.1a Interpret parts of an expression, such as terms, factors, and coefficients, in context. MGSE9-12.A.SSE.1b Given situations which utilize formulas or expressions with multiple terms and/or factors, interpret the meaning (in context) of individual terms or factors. MGSE9-12.A.SSE.2 Use the structure of an expression to rewrite it in different equivalent forms. For example, see $x^4 - y^4$ as $(x^2)^2 - (y^2)^2$, thus recognizing it as a difference of squares that can be factored as $(x^2 - y^2) (x^2 + y^2)$. Write expressions in equivalent forms to solve problems MGSE9-12.A.SSE.3 Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression. MGSE9-12.A.SSE.3B Factor any quadratic expression to reveal the zeros of the function defined by the expression. MGSE9-12.A.SSE.3b Complete the square in a quadratic expression to reveal the maximum or minimum value of the function defined by the expression. MGSE9-12.A.CED.1 Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear , quadratic, simple rational, and exponential functions (integer inputs only). MGSE9-12.A.CED.2 Create linear , quadratic, and exponential functions (integer inputs only). MGSE9-12.A.CED.4 Rearrange formula, in which A = P(1 + r/n) ^{nt} has multiple variables.) MGSE9-12.A.CED.4 Rearrange formulas to highlight a quantity of interest using the same reasoning as in solving equations. <i>Examples: Rearrange Ohm's law V = IR</i> to | Translate between the geometric description and the equation for a conic section MGSE9-12.G.GPE.1 Derive the equation of a circle of given center and radius using the Pythagorean Theorem; complete the square to find the center and radius of a circle given by an equation. Use coordinates to prove simple geometric theorems algebraically MGSE9-12.G.GPE.4 Use coordinates to prove simple geometric theorems algebraically. For example, prove or disprove that a figure defined by four given points in the coordinate plane is a rectangle; prove or disprove that the point (1, √3) lies on the circle centered at the origin and containing the point (0,2). (Focus on quadrilaterals, right triangles, and circles.) Apply geometric concepts in modeling situations MGSE9-12.G.MG.1 Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder). MGSE9-12.G.MG.2 Apply concepts of density based on area and volume in modeling situations (e.g., persons per square mile, BTUs per cubic foot). MGSE9-12.G.MG.3 Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios). | Understand independence and conditional probability and use them to interpret data MGSE9-12.S.CP.1 Describe categories of events as subsets of a sample space using unions, intersections, or complements of other events (or, and, not). MGSE9-12.S.CP.2 Understand that if two events A and B are independent, the probability of A and B occurring together is the product of their probabilities, and that if the probability of two events A and B occurring together is the product of their probabilities, and that if the probability of A given B as P (A and B)/P(B). Interpret independence of A and B in terms of conditional probability; that is, the conditional probability of B given A is the same as the probability of A given B is the same as the probability of A, and the conditional probability of B given A is the same as the probability of B. MGSE9-12.S.CP.4 Construct and interpret two-way frequency tables of data when two categories are associated with each object being classified. Use the two-way table as a sample space to decide if events are independent and to approximate conditional probabilities. For example, use collected data from a random sample of students in your school on their favorite subject among math, science, and English. Estimate the probability that a randomly selected student from your school will favor science given that the student is in tenth grade. Do the same for other subjects and compare the results. MGSE9-12.S.CP.5 Recognize and explain the concepts of conditional probability to compare the chance of having lung cancer if you are a smoker with the chance of being a smoker if you have lung cancer. Use the rules of probability to compute probabilities of compound events in a uniform probability model MGSE9-12.S.CP.6 Find the conditional probability of A given | | | |

| Solve equations and inequalities in one variable |
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| MGSE9-12.A.REI.4 Solve quadratic equations in one |
| variable. |
| MGSE9-12.A.REI.4a Use the method of completing the |
| square to transform any quadratic equation in x into an |
| equation of the form $(x - p)^2 = q$ that has the same solutions. |
| Derive the quadratic formula from $ax^2 + bx + c = 0$. |
| MGSE9-12.A.REI.4b Solve quadratic equations by inspection |
| (e.g., for $x^2 = 49$), taking square roots, factoring, completing |
| the square and the quadratic formula as appropriate to the |
| initial form of the equation (limit to real number solutions) |
| initial form of the equation (finite to real number solutions). |
| Interpret functions that arise in applications in terms of the |
| <u>context</u> |
| NIGSE9-12.F.IF.4 Using tables, graphs, and verbal |
| descriptions, interpret the key characteristics of a function |
| which models the relationship between two quantities. Sketch |
| a graph showing key features including: intercepts; interval |
| where the function is increasing, decreasing, positive, or |
| negative; relative maximums and minimums; symmetries; end |
| behavior; and periodicity. |
| MGSE9-12.F.IF.5 Relate the domain of a function to its graph |
| and, where applicable, to the quantitative relationship it |
| describes. For example, if the function $h(n)$ gives the number of |
| person-hours it takes to assemble n engines in a factory, then |
| the positive integers would be an appropriate domain for the |
| function. |
| MGSE9-12.F.IF.6 Calculate and interpret the average rate of |
| change of a function (presented symbolically or as a table) over |
| a specified interval. Estimate the rate of change from a graph. |
| Analyze functions using different representations |
| MGSE9-12.F.IF.7 Graph functions expressed algebraically |
| and show key features of the graph both by hand and by using |
| technology. |
| MGSE9-12.F.IF.7a Graph Hnear and quadratic functions and |
| show intercepts, maxima, and minima (as determined by the |
| function or by context). |
| MGSE9-12.F.IF.8 Write a function defined by an expression |
| in different but equivalent forms to reveal and explain different |
| properties of the function. |
| MGSE9-12.F.IF.8a Use the process of factoring and |
| completing the square in a quadratic function to show zeros, |
| extreme values, and symmetry of the graph, and interpret these |
| in terms of a context. For example, compare and contrast |
| quadratic functions in standard, vertex, and intercept forms. |
| MGSE9-12.F.IF.9 Compare properties of two functions each |
| represented in a different way (algebraically, graphically, |
| numerically in tables, or by verbal descriptions). For example, |
| given a graph of one function and an algebraic expression for |
| |

| another, say which has the larger maximum. | |
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| Build a function that models a relationship between two | |
| quantities | |
| MGSE9-12.F.BF.1 Write a function that describes a | |
| relationship between two quantities. | |
| MGSE9-12.F.BF.1a Determine an explicit expression and the | |
| recursive process (steps for calculation) from context. For | |
| example, if Jimmy starts out with \$15 and earns \$2 a day, the | |
| explicit expression " $2x+15$ " can be described recursively | |
| (either in writing or verbally) as "to find out how much money | |
| Jimmy will have tomorrow, you add \$2 to his total today." | |
| $J_n = J_{n-1} + 2, J_0 = 15$ | |
| Build new functions from existing functions | |
| MGSE9-12.F.BF.3 Identify the effect on the graph of | |
| replacing $f(x)$ by $f(x) + k$, k $f(x)$, $f(kx)$, and $f(x + k)$ for specific | |
| values of k (both positive and negative); find the value of k | |
| given the graphs. Experiment with cases and illustrate an | |
| explanation of the effects on the graph using technology. | |
| Include recognizing even and odd functions from their graphs | |
| and algebraic expressions for them. | |
| Construct and compare linear, quadratic, and exponential | |
| <u>models and solve problems</u> MCSE0 12 E L E 3 Observe using graphs and tables that a | |
| workity increasing exponentially eventually exceede a guentity | |
| quantity increasing exponentially eventually exceeds a quantity | |
| increasing linearly, quadratically, or (more generally) as a | |
| polynomial function. | |
| Summarize, represent, and interpret data on two | |
| categorical and quantitative variables | |
| MGSE9-12.S.ID.6 Represent data on two quantitative | |
| variables on a scatter plot, and describe now the variables are | |
| MCSF9-12 S ID 6a Decide which type of function is most | |
| appropriate by observing graphed data charted data or by | |
| analysis of context to generate a viable (rough) function of best | |
| fit. Use this function to solve problems in context. Emphasize | |
| linear, quadratic and exponential models. | |
| | |