

A Correlation of



Integrated Mathematics I, ©2019



To the

UTAH CORE STATE STANDARDS

For MATHEMATICS

Secondary Mathematics I

Utah Course # 0708000090

**A Correlation of enVision Integrated Mathematics I, ©2019
To The Utah Core State Standards for Mathematics Secondary Mathematics I
For Utah Course # 0708000090**

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Author: Kennedy, Milou, Thomas, Zbiek, Cuoco

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Utah Core State Standards For Mathematics Secondary Mathematics I	enVision Integrated Mathematics, ©2019 Mathematics I
Mathematical Practices	
<p>Standard SI.MP.1 Make sense of problems and persevere in solving them. Explain the meaning of a problem and look for entry points to its solution. Analyze givens, constraints, relationships, and goals. Make conjectures about the form and meaning of the solution, plan a solution pathway, and continually monitor progress asking, “Does this make sense?” Consider analogous problems, make connections between multiple representations, identify the correspondence between different approaches, look for trends, and transform algebraic expressions to highlight meaningful mathematics. Check answers to problems using a different method.</p>	<p>SE: 5-11, 18-23, 37-43, 24-29, 57-62, 83-88, 112-119, 120-128, 151-157, 158-163, 165-170, 177-183, 184-190, 219-227, 272-277, 285-291, 335-342, 388-395, 402-407</p> <p>TE: 5A-11B, 18A-23B, 37A-43B, 24A-29B, 57A-62B, 83A-88B, 112A-119B, 120A-128B, 151A-157B, 158A-163B, 165A-170B, 177A-183B, 184A-190B, 219A-227B, 272A-277B, 285A-291B, 335A-342B, 388A-395B, 402A-407B</p>
<p>Standard SI.MP.2 Reason abstractly and quantitatively. Make sense of the quantities and their relationships in problem situations. Translate between context and algebraic representations by contextualizing and decontextualizing quantitative relationships. This includes the ability to decontextualize a given situation, representing it algebraically and manipulating symbols fluently as well as the ability to contextualize algebraic representations to make sense of the problem.</p>	<p>SE: 63-68, 70-76, 83-88, 104-111, 112-119, 137-143, 144-150, 206-211, 219-227, 236-241, 265-271, 272-277, 292-298, 306-312, 319-326, 343-349, 363-370, 371-379, 396-401, 438-445, 446-452, 461-466</p> <p>TE: 63A-68B, 70A-76B, 83A-88B, 104A-111B, 112A-119B, 137A-143B, 144A-150B, 206A-211B, 219A-227B, 236A-241B, 265A-271B, 272A-277B, 292A-298B, 306A-312B, 319A-326B, 343A-349B, 363A-370B, 371A-379B, 396A-401B, 438A-445B, 446A-452B, 461A-466B</p>
<p>Standard SI.MP.3 Construct viable arguments and critique the reasoning of others. Understand and use stated assumptions, definitions, and previously established results in constructing arguments. Make conjectures and build a logical progression of statements to explore the truth of their conjectures. Justify conclusions and communicate them to others. Respond to the arguments of others by listening, asking clarifying questions, and critiquing the reasoning of others.</p>	<p>SE: 12-17, 18-23, 24-29, 57-62, 63-68, 96-102, 120-128, 151-157, 177-183, 184-190, 191-198, 199-205, 206-211, 228-235, 242-248, 265-271, 306-312, 327-334, 350-355, 402-407, 415-422, 453-460, 461-466</p> <p>TE: 12A-17B, 18A-23B, 24A-29B, 57A-62B, 63A-68B, 96A-102B, 120A-128B, 151A-157B, 177A-183B, 184A-190B, 191A-198B, 199A-205B, 206A-211B, 228A-235B, 242A-248B, 265A-271B, 306A-312B, 327A-334B, 350A-355B, 402A-407B, 415A-422B, 453A-460B, 461A-466B</p>

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<p>Standard SI.MP.4 Model with mathematics. Apply mathematics to solve problems arising in everyday life, society, and the workplace. Make assumptions and approximations, identifying important quantities to construct a mathematical model. Routinely interpret mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.</p>	<p>SE: 5-11, 18-23, 30, 51-56, 63-68, 69, 89-95, 103, 164, 165-170, 212, 249, 258-264, 299-305, 313, 356, 380, 408-414, 431-437, 467</p> <p>TE: 5A-11B, 18A-23B, 30-30B, 51A-56B, 63A-68B, 69-69B, 89A-95B, 103-103B, 164-164B, 165A-170B, 212-212B, 249-249B, 258A-264B, 299A-305B, 313-313B, 356-356B, 380-380B, 408A-414B, 431A-437B, 467-467B</p>
<p>Standard SI.MP.5 Use appropriate tools strategically. Consider the available tools and be sufficiently familiar with them to make sound decisions about when each tool might be helpful, recognizing both the insight to be gained as well as the limitations. Identify relevant external mathematical resources and use them to pose or solve problems. Use tools to explore and deepen their understanding of concepts.</p>	<p>SE: 112-119, 137-143, 144-150, 228-235, 388-395, 408-414, 431-437</p> <p>TE: 112A-119B, 137A-143B, 144A-150B, 228A-235B, 388A-395B, 408A-414B, 431A-437B</p>
<p>Standard SI.MP.6 Attend to precision. Communicate precisely to others. Use explicit definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose. Specify units of measure and label axes to clarify the correspondence with quantities in a problem. Calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context.</p>	<p>SE: 31-36, 57-62, 70-76, 89-95, 104-111, 250-257, 319-326, 327-334, 335-342, 363-370, 396-401, 438-445</p> <p>TE: 31A-36B, 57A-62B, 70A-76B, 89A-95B, 104A-111B, 250A-257B, 319A-326B, 327A-334B, 335A-342B, 363A-370B, 396A-401B, 438A-445B</p>

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<p>Standard SI.MP.7 Look for and make use of structure. Look closely at mathematical relationships to identify the underlying structure by recognizing a simple structure within a more complicated structure. See complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.</p>	<p>SE: 5-11, 12-17, 24-29, 37-43, 51-56, 70-76, 83-88, 89-95, 96-102, 104-111, 120-128, 137-143, 144-150, 158-163, 165-170, 184-190, 191-198, 199-205, 206-211, 236-241, 250-257, 258-264, 292-298, 299-305, 327-334, 335-342, 343-349, 350-355, 363-370, 371-379, 381-387, 415-422, 431-437, 438-445, 446-452, 453-460, 461-466</p> <p>TE: 5A-11B, 12A-17B, 24A-29B, 37A-43B, 51A-56B, 70A-76B, 83A-88B, 89A-95B, 96A-102B, 104A-111B, 120A-128B, 137A-143B, 144A-150B, 158A-163B, 165A-170B, 184A-190B, 191A-198B, 199A-205B, 206A-211B, 236A-241B, 250A-257B, 258A-264B, 292A-298B, 299A-305B, 327A-334B, 335A-342B, 343A-349B, 350A-355B, 363A-370B, 371A-379B, 381A-387B, 415A-422B, 431A-437B, 438A-445B, 446A-452B, 453A-460B, 461A-466B</p>
<p>Standard SI.MP.8 Look for and express regularity in repeated reasoning. Notice if reasoning is repeated, and look for both generalizations and shortcuts. Evaluate the reasonableness of intermediate results by maintaining oversight of the process while attending to the details.</p>	<p>SE: 31-36, 96-102, 151-157, 158-163, 177-183, 191-198, 199-205, 242-248, 285-291, 381-387, 446-452, 453-460</p> <p>TE: 31A-36B, 96A-102B, 151A-157B, 158A-163B, 177A-183B, 191A-198B, 199A-205B, 242A-248B, 285A-291B, 381A-387B, 446A-452B, 453A-460B</p>

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NUMBER AND QUANTITY	
Quantities (N.Q)	
Reason quantitatively and use units to solve problems. Working with quantities and the relationships between them provides grounding for work with expressions, equations, and functions.	
Standard N.Q.1 Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.	SE: 18-23, 51A-56, 89-95 TE: 18A-23B, 51A-56B, 89A-95B
Standard N.Q.2 Define appropriate quantities for the purpose of descriptive modeling.	SE: 12-17, 112-119, 120-128 TE: 12A-17B, 112A-119B, 120A-128B
Standard N.Q.3 Choose a level of accuracy appropriate to limitations on measurement when reporting quantities.	SE: 12-17, 24-29, 104-111, 199-205 TE: 12A-17B, 24A-29B, 104A-111B, 199A-205B
ALGEBRA	
Seeing Structure in Expressions (A.SSE)	
Interpret the structure of expressions.	
Standard A.SSE.1 Interpret linear expressions and exponential expressions with integer exponents that represent a quantity in terms of its context.	SE: 5-11, 12-17, 177-183, 184-190 TE: 5A-11B, 12A-17B, 177A-183B, 184A-190B
a. Interpret parts of an expression, such as terms, factors, and coefficients.	SE: 5-11, 12-17, 24-29, 144-150, 151-157, 177-183, 191-198 TE: 5A-11B, 12A-17B, 24A-29B, 144A-150B, 151A-157B, 177A-183B, 191A-198B
b. Interpret complicated expressions by viewing one or more of their parts as a single entity. For example, interpret $P(1+r)^n$ as the product of P and a factor not depending on P .	SE: 177-183, 191-198 TE: 177A-183B, 191A-198B

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Creating Equations (A.CED)	
Create equations that describe numbers or relationships. Limit these to linear equations and inequalities, and exponential equations. In the case of exponential equations, limit to situations requiring evaluation of exponential functions at integer inputs.	
Standard A.CED.1 Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and simple exponential functions.	SE: 5-11, 12-17, 18-23, 24-29, 30, 31-36, 37-43, 69, 177-183, 191-198 TE: 5A-11B, 12A-17B, 18A-23B, 24A-29B, 30-30B, 31A-36B, 37A-43B, 69-69B, 177A-183B, 191A-198B
Standard A.CED.2 Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.	SE: 51-56, 57-62, 63-68, 70-76, 191-198 TE: 51A-56B, 57A-62B, 63A-68B, 70A-76B, 164-164B, 191A-198B,
Standard A.CED.3 Represent constraints by equations or inequalities and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context. For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.	SE: 24-29, 31-36, 63-68, 69, 144-150, 151-157, 158-163, 165-170 TE: 24A-29B, 31A-36B, 63A-68B, 69-69B, 144A-150B, 151A-157B, 158A-163B, 165A-170B
Standard A.CED.4 Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's Law $V = IR$ to highlight resistance R .	SE: 18-23, 69 TE: 18A-23B, 69-69B
Reasoning With Equations and Inequalities (A.REI)	
Understand solving equations as a process of reasoning and explain the reasoning.	
Standard A.REI.1 Explain each step in solving a linear equation as following from the equality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution. Construct a viable argument to justify a solution method. Students will solve exponential equations with logarithms in Secondary Mathematics III.	SE: 5-11, 12-17, 30, 177-183 TE: 5A-11B, 12A-17B, 30-30B, 177A-183B

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Solve equations and inequalities in one variable.	
Standard A.REI.3 Solve equations and inequalities in one variable.	SE: 5-11, 12-17, 24-29, 31-36 TE: 5A-11B, 12A-17B, 24A-29B, 31A-36B
a. Solve one-variable equations and literal equations to highlight a variable of interest.	SE: 5-11, 12-17, 18-23 TE: 5A-11B, 12A-17B, 18A-23B
b. Solve compound inequalities in one variable, including absolute value inequalities.	SE: 31-36, 37-43 TE: 31A-36B, 37A-43B
c. Solve simple exponential equations that rely only on application of the laws of exponents (limit solving exponential equations to those that can be solved without logarithms). For example, $5x = 125$ or $2x = 1/16$.	SE: 177-183 TE: 177A-183B
Solve systems of equations. Build on student experiences graphing and solving systems of linear equations from middle school. Include cases where the two equations describe the same line—yielding infinitely many solutions—and cases where two equations describe parallel lines—yielding no solution; connect to GPE.5, which requires students to prove the slope criteria for parallel lines.	
Standard A.REI.5 Prove that, given a system of two equations in two variables, replacing one equation by the sum of that equation and a multiple of the other produces a system with the same solutions.	SE: 151-157 TE: 151A-157B
Standard A.REI.6 Solve systems of linear equations exactly and approximately (numerically, algebraically, graphically), focusing on pairs of linear equations in two variables.	SE: 137-143, 144-150, 151-157 TE: 137A-143B, 144A-150B, 151A-157B
Represent and solve equations and inequalities graphically.	
Standard A.REI.10 Understand that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane, often forming a curve (which could be a line).	SE: 83-88, 89-95, 96-102, 206-211 TE: 83A-88B, 89A-95B, 96A-102B, 206A-211B

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Standard A.REI.11 Explain why the x-coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$; find the solutions approximately; e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where $f(x)$ and/or $g(x)$ are linear and exponential functions.	SE: 144-150 TE: 144A-150B
Standard A.REI.12 Graph the solutions to a linear inequality in two variables as a halfplane (excluding the boundary in the case of a strict inequality), and graph the solution set to a system of linear inequalities in two variables as the intersection of the corresponding half-planes.	SE: 158-163, 165-170 TE: 158A-163B, 165A-170B
FUNCTIONS	
Interpreting Linear and Exponential Functions (F.IF)	
Understand the concept of a linear or exponential function and use function notation. Recognize arithmetic and geometric sequences as examples of linear and exponential functions.	
Standard F.IF.1 Understand that a function from one set (called the domain) to another set (called the range) assigns to each element of the domain exactly one element of the range. If f is a function and x is an element of its domain, then $f(x)$ denotes the output of f corresponding to the input x . The graph of f is the graph of the equation $y = f(x)$.	SE: 83-88, 89-95 TE: 83A-88B, 89A-95B
Standard F.IF.2 Use function notation, evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context.	SE: 89-95, 184-190 TE: 89A-95B, 184A-190B
Standard F.IF.3 Recognize that sequences are functions, sometimes defined recursively, whose domain is a subset of the integers. Emphasize arithmetic and geometric sequences as examples of linear and exponential functions. For example, the Fibonacci sequence is defined recursively by $f(0) = f(1) = 1$, $f(n+1) = f(n) + f(n-1)$ for $n \geq 1$.	SE: 104-111, 199-205 TE: 104A-111B, 199A-205B

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Interpret linear or exponential functions that arise in applications in terms of a context.	
Standard F.IF.4 For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; and end behavior.	SE: 89-95, 184-190, 206-211 TE: 89A-95B, 184A-190B, 206A-211B
Standard 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.	SE: 89-95, 96-102, 184-190 TE: 89A-95B, 96A-102B, 184A-190B
Standard 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.	SE: 184-190 TE: 184A-190B
Analyze linear or exponential functions using different representations.	
Standard F.IF.7 Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.	SE: 89-95, 96-102, 184-190, 206-211 TE: 89A-95B, 96A-102B, 184A-190B, 206A-211B
a. Graph linear functions and show intercepts.	SE: 51-56, 63-68 TE: 51A-56B, 63A-68B
e. Graph exponential functions, showing intercepts and end behavior.	SE: 184-190, 191-198, 206-211 TE: 184A-190B, 191A-198B, 206A-211B

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Standard 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, compare the growth of two linear functions, or two exponential functions such as $y=3n$ and $y=100 \cdot 2n$.	SE: 206-211 TE: 206A-211B
Building Linear or Exponential Functions (F.BF)	
Build a linear or exponential function that models a relationship between two quantities.	
Standard F.BF.1 Write a function that describes a relationship between two quantities.	SE: 96-102, 104-111, 212 TE: 96A-102B, 104A-111B, 212-212B
a. Determine an explicit expression, a recursive process, or steps for calculation from a context.	SE: 104-111, 199-205 TE: 104A-111B, 199A-205B
b. Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.	SE: 96-102, 206-211 TE: 96A-102B, 206A-211B
Standard F.BF.2 Write arithmetic and geometric sequences both recursively and with an explicit formula, use them to model situations, and translate between the two forms. Limit to linear and exponential functions. Connect arithmetic sequences to linear functions and geometric sequences to exponential functions.	SE: 104-111, 199-205 TE: 104A-111B, 199A-205B
Build new functions from existing functions.	
Standard F.BF.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, for specific values of k (both positive and negative); find the value of k given the graphs. Relate the vertical translation of a linear function to its y -intercept. Experiment with cases and illustrate an explanation of the effects on the graph using technology.	SE: 96-102, 206-211 TE: 96A-102B, 206A-211B

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Linear and Exponential (F.LE)	
Construct and compare linear and exponential models and solve problems.	
Standard F.LE.1 Distinguish between situations that can be modeled with linear functions and with exponential functions.	SE: 89-95, 96-102, 104-111, 112-119, 120-128, 184-190, 191-198, 199-205, 212 TE: 89A-95B, 96A-102B, 104A-111B, 112A-119B, 120A-128B, 184A-190B, 191A-198B, 199A-205B, 212-212B
a. Prove that linear functions grow by equal differences over equal intervals; exponential functions grow by equal factors over equal intervals.	SE: 104-111, 191-198 TE: 104A-111B, 191A-198B
b. Recognize situations in which one quantity changes at a constant rate per unit interval relative to another.	SE: 89-95, 104-111 TE: 89A-95B, 104A-111B
c. Recognize situations in which a quantity grows or decays by a constant percent rate per unit interval relative to another.	SE: 191-198 TE: 191A-198B
Standard F.LE.2 Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or two input-output pairs (include reading these from a table).	SE: 57-62, 89-95, 199-205, 212-212B TE: 57A-62B, 89A-95B, 199A-205B, 212-212B
Standard F.LE.3 Observe using graphs and tables that a quantity increasing exponentially eventually exceeds a quantity increasing linearly.	SE: 184-190 TE: 184A-190B
Interpret expressions for functions in terms of the situation they model.	
Standard F.LE.5 Interpret the parameters in a linear or exponential function in terms of a context. Limit exponential functions to those of the form $f(x) = bx + k$.	SE: 89-95, 144-150, 151-157, 158-163, 184-190, 191-198 TE: 89A-95B, 144A-150B, 151A-157B, 158A-163B, 184A-190B, 191A-198B

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GEOMETRY	
Congruence (G.CO)	
Experiment with transformations in the plane. Build on student experience with rigid motions from earlier grades.	
Standard G.CO.1 Know precise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc.	SE: 219-227, 249, 285-291 TE: 219A-227B, 249-249B, 285A-291B
Standard G.CO.2 Represent transformations in the plane using, for example, transparencies and geometry software; describe transformations as functions that take points in the plane as inputs and give other points as outputs. Compare transformations that preserve distance and angle to those that do not (e.g., translation versus horizontal stretch).	SE: 319-326, 327-334, 335-342 TE: 319A-326B, 327A-334B, 335A-342B
Standard G.CO.3 Given a rectangle, parallelogram, trapezoid, or regular polygon, describe the rotations and reflections that carry it onto itself.	SE: 350-355 TE: 350A-355B
Standard G.CO.4 Develop definitions of rotations, reflections, and translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.	SE: 319-326, 327-334, 335-342 TE: 319A-326B, 327A-334B, 335A-342B
Standard G.CO.5 Given a geometric figure and a rotation, reflection, or translation, draw the transformed figure using, for example, graph paper, tracing paper, or geometry software. Specify a sequence of transformations that will carry a given figure onto another. Point out the basis of rigid motions in geometric concepts, for example, translations move points a specified distance along a line parallel to a specified line; rotations move objects along a circular arc with a specified center through a specified angle.	SE: 319-326, 327-334, 335-342, 350-355, 356, 363-370, 381-387, 388-395 TE: 319A-326B, 327A-334B, 335A-342B, 350A-355B, 356-356B, 363A-370B, 381A-387B, 388A-395B

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Understand congruence in terms of rigid motions. Rigid motions are at the foundation of the definition of congruence. Reason from the basic properties of rigid motions (that they preserve distance and angle), which are assumed without proof. Rigid motions and their assumed properties can be used to establish the usual triangle congruence criteria, which can then be used to prove other theorems.	
Standard G.CO.6 Use geometric descriptions of rigid motions to transform figures and to predict the effect of a given rigid motion on a given figure; given two figures, use the definition of congruence in terms of rigid motions to decide whether they are congruent.	SE: 319-326, 327-334, 335-342, 343-349, 350-355, 356, 363-370, 381-387, 388-395 TE: 319A-326B, 327A-334B, 335A-342B, 343A-349B, 350A-355B, 356-356B, 363A-370B, 381A-387B, 388A-395B
Standard 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.	SE: 380, 381-387, 388-395 TE: 380-380B 381A-387B, 388A-395B
Standard 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.	SE: 381-387, 388-395 TE: 381A-387B, 388A-395B
Make geometric constructions.	
Standard 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.). Emphasize the ability to formalize and defend how these constructions result in the desired objects. For example, 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.	SE: 228-235, 249, 285-291, 292-298, 335-342 TE: 228A-235B, 249-249B, 285A-291B, 292A-298B, 335A-342B
Standard G.CO.13 Construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle. Emphasize the ability to formalize and defend how these constructions result in the desired objects.	SE: 371-379, 415-422 TE: 371A-379B, 415A-422B

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Expressing Geometric Properties With Equations (G.GPE)	
Use coordinates to prove simple geometric theorems algebraically	
Standard 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 $(0, 2)$.	SE: 306-312, 408-414 TE: 306A-312B, 408A-414B
Standard G.GPE.5 Prove the slope criteria for parallel and perpendicular lines; use them to solve geometric problems (e.g., find the equation of a line parallel or perpendicular to a given line that passes through a given point).	SE: 306-312 TE: 306A-312B
Standard G.GPE.7 Use coordinates to compute perimeters of polygons and areas of triangles and rectangles; connect with The Pythagorean Theorem and the distance formula.	SE: 408-414 TE: 408A-414B
STATISTICS AND PROBABILITY	
Interpreting Categorical and Quantitative Data (S.ID)	
Summarize, represent, and interpret data on a single count or measurement variable.	
Standard S.ID.1 Represent data with plots on the real number line (dot plots, histograms, and box plots).	SE: 431-437, 438-445 TE: 431A-437B, 438A-445B
Standard S.ID.2 Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets.	SE: 438-445, 446-452, 453-460 TE: 438A-445B, 446A-452B, 453A-460B
Standard S.ID.3 Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers). Calculate the weighted average of a distribution and interpret it as a measure of center.	SE: 438-445, 446-452, 453-460, 467 TE: 438A-445B, 446A-452B, 453A-460B, 467-467B

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Summarize, represent, and interpret data on two categorical and quantitative variables.	
Standard S.ID.6 Represent data on two quantitative variables on a scatter plot, and describe how the variables are related.	SE: 112-119, 120-128 TE: 112A-119B, 120A-128B
a. Fit a linear function to the data; use functions fitted to data to solve problems in the context of the data. Use given functions, or choose a function suggested by the context. Emphasize linear and exponential models.	SE: 103, 112-119, 120-128 TE: 103-103B, 112A-119B, 120A-128B
b. Informally assess the fit of a function by plotting and analyzing residuals. Focus on situations for which linear models are appropriate.	SE: 120-128 TE: 120A-128B
c. Fit a linear function for scatter plots that suggest a linear association.	SE: 112-119, 120-128 TE: 112A-119B, 120A-128B
Interpret linear models building on students' work with linear relationships, and introduce the correlation coefficient.	
Standard S.ID.7 Interpret the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data.	SE: 103, 112-119, 120-128 TE: 103-103B, 112A-119B, 120A-128B
Standard S.ID.8 Compute (using technology) and interpret the correlation coefficient of a linear fit.	SE: 120-128 TE: 120A-128B
Standard S.ID.9 Distinguish between correlation and causation.	SE: 396-401 TE: 396A-401B