## Common Core State Standards with California Additions ${ }^{1}$ Standards Map for a Basic Grade-Level Program

Grade Eight - Mathematics

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|  | THE NUMBER SYSTEM |  |  |  |  |  |
|  | Know that there are numbers that are not rational, and approximate them by rational numbers. |  |  |  |  |  |
| 8.NS 1. | Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number. | Unit 11: <br> Exploring Real Numbers | Unit 11: <br> Finding <br> Distance in the <br> Coordinate Plane (Instruction, Frames 5-6, 11-12; <br> Assignment, Frames 1, 35) |  |  |  |
| 8.NS 2. | Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., m2). For example, by truncating the decimal expansion of $\sqrt{ } 2$, | Unit 11: <br> Estimating and Comparing Square Roots |  |  |  |  |

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|  | show that $\sqrt{ } 2$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations. |  |  |  |  |  |
|  | EXPRESSIONS AND EQUATIONS |  |  |  |  |  |
|  | Work with radicals and integer exponents. |  |  |  |  |  |
| 8.EE 1. | Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $3^{2} \times 3^{-5}=3^{-3}=$ $1 / 3^{3}=1 / 27$. | Unit 10: Zero and Negative Exponents, Powers with the Same Base, Raising a Power to a Power, Evaluating Expressions with Exponents |  |  |  |  |
| 8.EE 2. | Use square root and cube root symbols to represent solutions to equations of the form $x^{2}=p$ and $x^{3}=p$, where $p$ is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{ } 2$ is irrational. | Unit 11: <br> Finding the Hypotenuse in Right Triangles, Unknown Leg Lengths in Right Triangles, Converse to the Pythagorean Theorem |  |  |  |  |

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|  |  | Unit 12: <br> Spherical and Cubic <br> Volume <br> Applications |  |  |  |  |
| 8.EE 3. | Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the population of the United States as $3 \times$ $10^{8}$ and the population of the world as $7 \times$ $10^{9}$, and determine that the world population is more than 20 times larger. | Unit 10: Introduction to Scientific Notation |  |  |  |  |
| 8.EE 4. | Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities (e.g., use millimeters per year for seafloor spreading). Interpret scientific notation that has been generated by technology. | Unit 10: <br> Operations with Scientific Notation |  |  |  |  |
|  | Understand the connections between proportional relationships, lines, and linear equations. |  |  |  |  |  |
| 8.EE 5. | Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time | Unit 2: Rate of Change and Introduction to Slope, |  |  |  |  |

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|  | graph to a distance-time equation to determine which of two moving objects has greater speed. | Proportional Relationships , Graphing in a Variety of Contexts <br> Unit 3: Comparing Slopes and Intercepts |  |  |  |  |
| 8.EE 6. | Use similar triangles to explain why the slope $m$ is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation $\mathrm{y}=\mathrm{mx}$ for a line through the origin and the equation $y=m x+b$ for a line intercepting the vertical axis at $b$. | Unit 9: <br> Similar <br> Triangles and Slope | Unit 2: SlopeIntercept Form (Instruction, Frames 8, 1314, 16; Assignment (\#2), Frames 1-8) |  |  |  |
|  | Understand the connections between proportional relationships, lines, and linear equations. |  |  |  |  |  |
| 8.EE 7a. | Solve linear equations in one variable. Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $\mathrm{x}=\mathrm{a}, \mathrm{a}=\mathrm{a}$, or $\mathrm{a}=\mathrm{b}$ results (where a and $b$ are different numbers). | Unit 5: Analyzing Solutions |  |  |  |  |
| 8.EE 7b. | Solve linear equations in one variable. Solve | Unit 5: |  |  |  |  |

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|  | linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms. | Solving with the Distributive Property, Solving Equations with Rational Numbers, Solving with Variables on Both Sides <br> Unit 9: Solving for Unknown Angles in Triangles |  |  |  |  |
| 8.EE 8a. | Analyze and solve pairs of simultaneous linear equations. Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously. | Unit 6: <br> Exploring Systems of Linear Equations, Using Graphs to Determine the Number of Solutions |  |  |  |  |
| 8.EE 8b. | Analyze and solve pairs of simultaneous linear equations. Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example, $3 x+2 y=5$ and $3 x+2 y=6$ have no solution because $3 x+2 y$ cannot | Unit 6: Estimating Solutions of Systems <br> Unit 7: Finding the |  |  |  |  |

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|  | simultaneously be 5 and 6. | Number of <br> Solutions, <br> Rewriting <br> Equations to <br> Use <br> Substitution, <br> Using <br> Addition to <br> Solve <br> Systems, <br> Multiplying <br> One Equation <br> to Solve <br> Systems, <br> Multiplying <br> Two <br> Equations to <br> Solve <br> Systems |  |  |  |  |
| 8.EE 8c. | Analyze and solve pairs of simultaneous linear equations. Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair. | Unit 6: <br> Writing and <br> Solving <br> Systems, <br> Exploring <br> Systems in <br> the Real <br> World <br> Unit 7: <br> Solving <br> Systems with <br> Fractions |  |  |  |  |
|  | FUNCTIONS |  |  |  |  |  |

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|  | Define, evaluate, and compare functions. |  |  |  |  |  |
| 8.F 1. | Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output. ${ }^{2}$ | Unit 1: Introduction to Functions, Linear vs. Nonlinear Functions |  |  |  |  |
| 8.F 2. | Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change. | Unit 3: Comparing Functions in the Real World | Unit 4: <br> Comparing Data Sets (Instruction, Frames 4, 7; Assignment (\#2), Frames 2, 8) |  |  |  |
| 8.F 3. | Interpret the equation $y=m x+b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. For example, the function $A=s^{2}$ giving the area of a square as a function of its side length is not linear because its graph contains the points $(1,1),(2,4)$ and $(3,9)$, which are not on a straight line. | Unit 1: Linear vs. Nonlinear Functions <br> Unit 2: Slope Intercept Form |  |  |  |  |
|  | Use functions to model relationships between quantities. |  |  |  |  |  |
| 8.F 4. | Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two $(x, y)$ values, | Unit 1: <br> Tables, Graphs, and Equations | Unit 6: Writing and Solving Systems (Instruction, Frames 4, 9; |  |  |  |

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|  | including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values. | Unit 2: <br> Standard <br> Form <br> Unit 3: <br> Writing <br> Linear <br> Equations <br> Given Two <br> Points | Assignment, Frames 7, 9) |  |  |  |
| 8.F 5. | Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally. | Unit 1: Interpreting Graphs |  |  |  |  |
|  | GEOMETRY |  |  |  |  |  |
|  | Understand congruence and similarity using physical models, transparencies, or geometry software. |  |  |  |  |  |
| 8.G 1a. | Verify experimentally the properties of rotations, reflections, and translations: Lines are taken to lines, and line segments to line segments of the same length. | Unit 8: <br> Congruence and Transformati ons |  |  |  |  |
| 8.G 1b. | Verify experimentally the properties of rotations, reflections, and translations: Angles are taken to angles of the same measure. | Unit 8: <br> Congruence and Transformati ons |  |  |  |  |
| 8.G 1c. | Verify experimentally the properties of | Unit 8: |  |  |  |  |

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|  | rotations, reflections, and translations: Parallel lines are taken to parallel lines. | Congruence and <br> Transformati ons |  |  |  |  |
| $8 . \mathrm{G} 2$. | Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them. | Unit 8: <br> Overview of Transformati ons, Congruence and Transformati ons |  |  |  |  |
| $8 . \mathrm{G} 3$. | Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates. | Unit 8: <br> Translations, Reflections, Rotations, Rotations in the Coordinate Plane, Dilations | Unit 8: <br> Overview of Transformatio ns (Assignment (\#1), Frame 8; Instruction, Frames 3-5, 7) |  |  |  |
| 8.G 4. | Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them. | Unit: 8 <br> Similarity and Transformati ons |  |  |  |  |
| 8.G 5. | Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of | Unit 9: Angle Relationships <br> Transversals, Parallel Lines | Unit 9: <br> Solving for <br> Unknown <br> Angles in <br> Triangles |  |  |  |

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|  | triangles. For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so. | Cut by a Transversal, Sum of Interior Angles of a Triangle, Exterior Angles of a Triangle, Similar Triangles | (Instruction, Frames 2, 8; Assignment, Frame 5) |  |  |  |
|  | Understand and apply the Pythagorean Theorem. |  |  |  |  |  |
| 8.G 6. | Explain a proof of the Pythagorean Theorem and its converse. | Unit 11: Exploring Pythagorean Theorem | Unit 11: <br> Converse to the <br> Pythagorean <br> Theorem <br> (Instruction, <br> Frame 2; <br> Assignment, Frame 8) |  |  |  |
| 8.G 7. | Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions. | Unit 11: <br> Finding the <br> Hypotenuse <br> in Right <br> Triangles, <br> Unknown Leg <br> Lengths in <br> Right <br> Triangles, <br> Pythagorean <br> Theorem in |  |  |  |  |

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|  |  | Three Dimensions |  |  |  |  |
| 8.G 8. | Apply the Pythagorean Theorem to find the distance between two points in a coordinate system. | Unit 11: <br> Finding Distance in the Coordinate Plane |  |  |  |  |
|  | Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres. |  |  |  |  |  |
| 8.G 9. | Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems. | Unit 12: <br> Introduction to Volume of a Cylinder, Applications with the Volume of a Cylinder, Introduction to Volume of a Cone, Applications with the Volume of a Cone, Introduction to the Volume of a Sphere, Spherical and Cubic Volume |  |  |  |  |

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|  |  | Applications, Volume with Composite Figures |  |  |  |  |
|  | STATISTICS AND PROBABILITY |  |  |  |  |  |
|  | Investigate patterns of association in bivariate data. |  |  |  |  |  |
| 8.SP 1. | Construct and interpret scatter plots for bivariate measurement data to investigate patterns of association between two quantities. Describe patterns such as clustering, outliers, positive or negative association, linear association, and nonlinear association. | Unit 4: <br> Constructing Scatterplots, Interpreting Clusters and Outliers, Exploring Association, Comparing Data Sets |  |  |  |  |
| 8.SP 2. | Know that straight lines are widely used to model relationships between two quantitative variables. For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line. | Unit 4: <br> Drawing <br> Trend Lines, Using <br> Equations to Represent Trend Lines |  |  |  |  |
| 8.SP 3. | Use the equation of a linear model to solve problems in the context of bivariate measurement data, interpreting the slope and intercept. For example, in a linear model for a biology experiment, interpret a slope of $1.5 \mathrm{~cm} / \mathrm{hr}$ as meaning that an additional hour of sunlight each day is associated with an additional 1.5 cm in mature plant height. | Unit 4: <br> Making <br> Predictions, <br> Using <br> Equations to <br> Represent <br> Trend Lines |  |  |  |  |

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| 8.SP 4. | Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables. For example, collect data from students in your class on whether or not they have a curfew on school nights and whether or not they have assigned chores at home. Is there evidence that those who have a curfew also tend to have chores? | Unit 4: <br> Making TwoWay Tables, Interpreting Two-Way Tables |  |  |  |  |
|  | MATHEMATICAL PRACTICES |  |  |  |  |  |
| MP 1. | Make sense of problems and persevere in solving them. | Unit 1: <br> Making <br> Tables <br> Unit 2: <br> Graphing in a <br> Variety of <br> Contexts <br> Unit 4: <br> Comparing <br> Data Sets <br> Unit 5: <br> Solving with <br> Variables on <br> Both Sides | Unit 4: <br> Interpreting <br> Two-Way <br> Tables <br> (Instruction, <br> Frame 2; <br> Assignment, <br> Frame 3) |  |  |  |

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|  |  | Unit 12: Applications with Volume of a Cone |  |  |  |  |
| MP 2. | Reason abstractly and quantitatively. | Unit 2: Slope Intercept Form <br> Unit 4: <br> Making <br> Predictions <br> Unit 10: Zero and Negative Exponents <br> Unit 11: <br> Finding the Hypotenuse in Right Triangles | Unit 4: Using Equations to Represent Trend Lines (Assignment (\#2), Frame 6) |  |  |  |
| MP 3. | Construct viable arguments and critique the reasoning of others. | Unit 1: <br> Graphing on the Coordinate Plane <br> Unit 2: Rate of Change and Introduction | Unit 11: Converse to the Pythagorean Theorem (Assignment, Frames 5, 8) |  |  |  |

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|  |  | to Slope <br> Unit 9: <br> Exterior <br> Angles of a <br> Triangle <br> Unit 10: <br> Evaluating <br> Expressions <br> with <br> Exponents |  |  |  |  |
| MP 4. | Model with mathematics. | Unit 5: <br> Equivalent <br> Equations <br> Unit 9: <br> Transversals <br> Unit 11: <br> Pythagorean <br> Theorem in <br> Three <br> Dimensions <br> Unit 12: <br> Applications with the <br> Volume of a Cylinder | Unit 4: <br> Interpreting <br> Two-Way <br> Tables <br> (Instruction, <br> Frames 2, 4- <br> 5; <br> Assignment, <br> Frames 1-3) |  |  |  |
| MP 5. | Use appropriate tools strategically. | Unit 1: Using Technology | Unit 4: Drawing |  |  |  |

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|  |  | to Explore <br> Data <br> Unit 4: <br> Making <br> Predictions <br> Unit 5: <br> Modeling with <br> Variables on <br> Both Sides <br> Unit 6: Using Graphs to Determine the Number of Solutions <br> Unit 7: <br> Solving <br> Systems with Fractions | Trend Lines (Instruction, Frames 1113; <br> Assignment <br> (\#1), Frame 8) |  |  |  |
| MP 6. | Attend to precision. | Unit 3: Comparing Functions in the Real World <br> Unit 9: <br> Similar <br> Triangles | Unit 8: <br> Dilations in the <br> Coordinate Plane (Instruction; Frames 1011, 13-14; Assignment, Frames 4-5) |  |  |  |

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|  |  | Unit 10: <br> Evaluating <br> Expressions with <br> Exponents <br> Unit 12: <br> Volume with Composite Figures |  |  |  |  |
| MP 7. | Look for and make use of structure. | Unit 2: <br> Proportional <br> Relationships <br> Unit 3: <br> Comparing <br> Slopes and <br> Intercepts <br> Unit 5: <br> Equivalent <br> Equations <br> Unit 8: <br> Congruence <br> Unit 9: <br> Similar <br> Triangles and Slope | Unit 5: Using the <br> Distributive <br> Property (Instruction, Frame 8; Assignment (\#1), Frame 2) |  |  |  |
| MP 8. | Look for and express regularity in repeated reasoning. | Unit 7: Solving | Unit 10: Introduction to |  |  |  |

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|  |  | Systems by Guess and Check <br> Unit 8: <br> Dilations <br> Unit 10: Zero and Negative Exponents <br> Unit 11: <br> Exploring Real Numbers | Scientific Notation (Instruction, Frame 2-5; Assignment, Frames 2-3) |  |  |  |

## Appendix

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[^0]:    ${ }^{1}$ These standards were originally produced by the Common Core State Standards Initiative, a state-led effort coordinated by the National Governors Association Center for Best Practices and the Council of Chief State School Officers. California additions were made by the State Board of Education when it adopted the Common Core on August 2, 2010 and modified pursuant to Senate Bill 1200 located at http://tinyurl.com/CASB1200 on January 16, 2013. Additions are marked in bold and underlined.

[^1]:    ${ }^{2}$ Function notation is not required in Grade 8.

