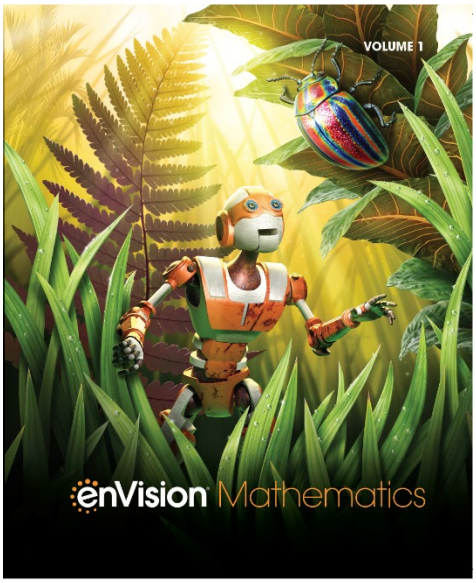
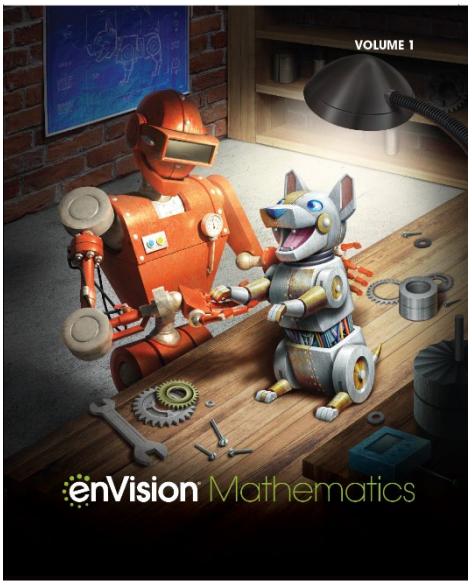
A Correlation of

enVision® Mathematics

Grades 6-8, ©2021





To the

Missouri Learning Standards Mathematics Grade-Level Expectations 2016 Grades 6-8

SAVVAS

A Correlation of enVision Mathematics, ©2021
to the Missouri Learning Standards: Mathematics Grade-Level Expectations 2016

Introduction

The new enVision® Mathematics ©2021 is the latest offering of the nationally recognized Grades K-12 series, created for print, digital, and blended instruction. Problem-Based Learning connects with Visual Learning to deep conceptual understanding. Interactive multimedia experiences engage learners in student choice and solving rich problems. Extensive customization and differentiation options empower every teacher and student.

UNDERSTANDING
A simple lesson design provides a clear, intentional pathway. Starting on a firm foundation of conceptual understanding, students can connect and apply math ideas in amazing ways. High-interest math projects invite all students to be active participants.

A simple lesson design provides a clear, intentional pathway.

STEP 1 Problem-Based Learning
STEP 2 Visual Learning
STEP 3 Assess and Differentiate

ASSESSMENT
The enVision Assessment Suite offers options to move students toward mastery of state standards while driving instructional differentiation.

DIAGNOSTIC Assessment
Reading Test, Diagnostic Test (Math Diagnosis and Intervention System), Review What You Know
FORMATIVE Assessment
SCOUT Observational Assessment used during Solve & Share, Do You Understand? And Convince Me! Guide Practice, Quick Check
SUMMATIVE Assessment
Topic Assessments, Topic Performance Assessments, Examview Test Generator, Fluency Assessments, Cumulative/Benchmarks Assessments, Progress Monitoring Assessments

INSTRUCTIONAL SUPPORT
Gain a new perspective on your teaching with embedded strategies, methods, and a wide range of Professional Development opportunities in print and digital formats.

Ideas, Inspiration, and Teaching Methods
Math background for every Topic and Lesson serves as an easy-to-access math methods course.

Make every lesson perfect for you. Access all digital content, assessments, and management tools at SavvasRealize.com.

Kids See the Math. Teachers See Results.

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Ratios and Proportional Relationships	**6.RP**
(RP.A) Understand and use ratios to solve problems.	
(RP.A.1) Understand a ratio as a comparison of two quantities and represent these comparisons.	**SE:** 267-272, 333-338 **TE:** 267A-272B, 333-338
(RP.A.2) Understand the concept of a unit rate associated with a ratio, and describe the meaning of unit rate.	**SE:** 293-298, 333-338 **TE:** 293A-298B, 333-338
(RP.A.3) Solve problems involving ratios and rates.	
(RP.A.3.a) Create tables of equivalent ratios, find missing values in the tables and plot the pairs of values on the Cartesian coordinate plane.	**SE:** 267-272, 273-278, 279-284, 285-290, 293-298, 299-304, 333-338 **TE:** 267A-272B, 273A-278B, 279A-284B, 285A-290B, 293A-298B, 299A-304B, 333-338
(RP.A.3.b) Solve unit rate problems.	**SE:** 293-298, 299-304, 305-310, 333-338 **TE:** 293A-298B, 299A-304B, 305A-310B, 333-338
(RP.A.3.c) Solve percent problems.	**SE:** 347-352, 353-358, 359-364, 367-372, 373-378, 379-384, 389-392 **TE:** 347A-352B, 353A-358B, 359A-364B, 367A-372B, 373A-378B, 379A-384B, 389-392
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(NS) Number Sense and Operations	
(NS.A) Apply and extend previous understandings of multiplication and division to divide fractions by fractions.	
(NS.A.1) Compute and interpret quotients of positive fractions.	
(NS.A.1.a) Solve problems involving division of fractions by fractions.	**SE:** 33-38, 39-44, 45-50, 51-56, 57-60 **TE:** 33A-38B, 39A-44B, 45A-50B, 51A-56B, 57-60
(NS.B) Compute with non-negative multi-digit numbers, and find common factors and multiples.	
(NS.B.1) Demonstrate fluency with division of multi-digit whole numbers.	**SE:** 15-20, 57-60 **TE:** 15A-20B, 57-60
(NS.B.2) Demonstrate fluency with addition, subtraction, multiplication and division of decimals.	**SE:** 9 -14, 15-20, 57-60 **TE:** 9A-14B, 15A-20B, 57-60

SE = Student Edition TE = Teacher's Edition

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(NS.B.3) Find common factors and multiples.	
(NS.B.3.a) Find the greatest common factor (GCF) and the least common multiple (LCM).	**SE:** 129-136, 173-176 **TE:** 129A-136B, 173-176
(NS.B.3.b) Use the distributive property to express a sum of two whole numbers with a common factor as a multiple of a sum of two whole numbers.	**SE:** 129-136, 173-176 **TE:** 129A-136B, 173-176
(NS.C) Apply and extend previous understandings of numbers to the system of rational numbers.	
(NS.C.1) Use positive and negative numbers to represent quantities.	**SE:** 69-74, 111-114 **TE:** 69A-74B, 111-114
(NS.C.2) Locate a rational number as a point on the number line.	**SE:** 69-74, 75-80, 89-94, 111-114, 419-424, 455-460 **TE:** 69A-74B, 75A-80B, 89A-94B, 111-114, 419A-424B, 455-460
(NS.C.2.a) Locate rational numbers on a horizontal or vertical number line.	**SE:** 69-74, 111-114 **TE:** 69A-74B, 111-114
(NS.C.2.b) Write, interpret and explain problems of ordering of rational numbers.	**SE:** 99-104, 105-110, 111-114, 419-424, 455-460 **TE:** 99A-104B, 105A-110B, 111-114, 419A-424B, 455-460
(NS.C.2.c) Understand that a number and its opposite (additive inverse) are located on opposite sides of zero on the number line.	**SE:** 69-74, 111-114 **TE:** 69A-74B, 111-114
(NS.C.3) Understand that the absolute value of a rational number is its distance from 0 on the number line.	**SE:** 75-80, 81-86, 111-114 **TE:** 75A-80B, 81A-86B, 111-114
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(EEI) Expressions, Equations and Inequalities	
(EEI.A) Apply and extend previous understandings of arithmetic to algebraic expressions.	
(EEI.A.1) Describe the difference between an expression and an equation.	**SE:** 145 – 150, 173 – 176, 185 – 190, 253 - 258 **TE:** 145A - 150B, 173 – 176, 185A - 190B, 253 - 258
(EEI.A.2) Create and evaluate expressions involving variables and whole number exponents.	**SE:** 123-128, 137-142, 145-150, 173-176, 401-406, 407-412, 413-418, 419-424, 437-442, 443-448, 449-454, 455-460 **TE:** 123A-128B, 137A-142B, 145A-150B, 173-176, 401A-406B, 407A-412B, 413A-413B, 419A-424B, 437A-442B, 443A-448B, 449A-454B, 455-460
(EEI.A.2.a) Identify parts of an expression using mathematical terminology.	**SE:** 145-150, 173-176 **TE:** 145A-150B, 173-176
(EEI.A.2.b) Evaluate expressions at specific values of the variables.	**SE:** 151-156, 173-176, 401-406, 407-412, 413-418, 419-424, 437-442, 443-448, 449-454, 455-460 **TE:** 151A-156B, 173-176, 401A-406B, 407A-412B, 413A-413B, 419A-424B, 437A-442B, 443A-448B, 449A-454B, 455-460
(EEI.A.2.c) Evaluate non-negative rational number expressions.	**SE:** 123-128, 137-142, 173-176 **TE:** 123A-128B, 137A-142B, 173-176
(EEI.A.2.d) Write and evaluate algebraic expressions.	**SE:** 145-150, 173-176, 437-442, 443-448, 449-454, 455-460 **TE:** 145A-150B, 173-176, 437A-442B, 443A-448B, 449A-454B, 455-460
(EEI.A.2.e) Understand the meaning of the variable in the context of the situation.	**SE:** 151-156, 173-176, 401-406, 407-412, 413-418, 419-424, 437-442, 443-448, 449-454, 455-460 **TE:** 151A-156B, 173-176, 401A-406B, 407A-412B, 413A-413B, 419A-424B, 437A-442B, 443A-448B, 449A-454B, 455-460

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(EEI.B) Reason about and solve one-variable equations and inequalities.	
(EEI.B.1) Use substitution to determine whether a given number in a specified set makes a one-variable equation or inequality true.	**SE:** 185-190, 219-224, 225-230, 253-258 **TE:** 185A-190B, 219A-224B, 225A-230B, 253-258
(EEI.B.2) Understand that if any solutions exist, the solution set for an equation or inequality consists of values that make the equation or inequality true.	**SE:** 185-190, 219-224, 225-230, 253-258 **TE:** 185A-190B, 219A-224B, 225A-230B, 253-258
(EEI.B.3) Write and solve equations using variables to represent quantities, and understand the meaning of the variable in the context of the situation.	**SE:** 191-196, 197-202, 203-208, 209-216, 253-258 **TE:** 191A-196B, 197A-202B, 203A-208B, 209A-216B, 253-258
(EEI.B.4) Solve one-step linear equations in one variable involving non-negative rational numbers.	**SE:** 191-196, 197-202, 203-208, 209-216, 253-258 **TE:** 191A-196B, 197A-202B, 203A-208B, 209A-216B, 253-258
(EEI.B.5) Recognize that inequalities may have infinitely many solutions.	**SE:** 219-224, 225-230, 253-258 **TE:** 219A-224B, 225A-230B, 253-258
(EEI.B.5.a) Write an inequality of the form $x > c$, $x < c$, $x \geq c$, or $x \leq c$ to represent a constraint or condition.	**SE:** 219-224, 225-230, 253-258 **TE:** 219A-224B, 225A-230B, 253-258
(EEI.B.5.b) Graph the solution set of an inequality.	**SE:** 219-224, 225-230, 253-258 **TE:** 219A-224B, 225A-230B, 253-258
(EEI.C) Represent and analyze quantitative relationships between dependent and independent variables.	
(EEI.C.1) Identify and describe relationships between two variables that change in relationship to one another.	**SE:** 235-240, 241-246, 247-252, 253-258 **TE:** 235A-240B, 241A-246B, 247A-252B, 253-258
(EEI.C.1.a) Write an equation to express one quantity, the dependent variable, in terms of the other quantity, the independent variable.	**SE:** 235-240, 241-246, 247-252, 253-258 **TE:** 235A-240B, 241A-246B, 247A-252B, 253-258
(EEI.C.1.b) Analyze the relationship between the dependent and independent variables using graphs, tables and equations and relate these representations to each other.	**SE:** 235-240, 241-246, 247-252, 253-258 **TE:** 235A-240B, 241A-246B, 247A-252B, 253-258

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(GM) Geometry and Measurement	
(GM.A) Solve problems involving area, surface area and volume.	
(GM.A.1) Find the area of polygons by composing or decomposing the shapes into rectangles or triangles.	**SE:** 401-406, 407-412, 413-418, 419-424, 455-460 **TE:** 401A-406B, 407A-412B, 413A-413B, 419A-424B, 455-460
(GM.A.2) Find the volume of right rectangular prisms.	**SE:** 449-454, 455-460 **TE:** 449A-454B, 455-460
(GM.A.2.a) Understand that the volume of a right rectangular prism can be found by filling the prism with multiple layers of the base.	**SE:** 449-454, 455-460 **TE:** 449A-454B, 455-460
(GM.A.2.b) Apply V = l * w * h and V = Bh to find the volume of right rectangular prisms.	**SE:** 449-454, 455-460 **TE:** 449A-454B, 455-460
(GM.A.3) Solve problems by graphing points in all four quadrants of the Cartesian coordinate plane.	**SE:** 89 – 94, 99 – 104, 111 – 114 **TE:** 89A - 94B, 99A - 104B, 111 - 114
(GM.A.3.a) Understand signs of numbers in ordered pairs as indicating locations in quadrants of the Cartesian coordinate plane.	**SE:** 89 – 94, 99 – 104, 111 – 114 **TE:** 89A - 94B, 99A - 104B, 111 - 114
(GM.A.3.b) Recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	**SE:** 89 – 94, 99 – 104, 111 – 114 **TE:** 89A - 94B, 99A - 104B, 111 - 114
(GM.A.3.c) Find distances between points with the same first coordinate or the same second coordinate.	**SE:** 99 – 104, 111 – 114 **TE:** 99A - 104B, 111 - 114
(GM.A.3.d) Construct polygons in the Cartesian coordinate plane.	**SE:** 105-110, 111-114, 419-424, 455-460 **TE:** 105A-110B, 111-114, 419A-424B, 455-460
(GM.A.4) Solve problems using nets.	**SE:** 427-432, 437-442, 443-448, 455-460 **TE:** 427A-432B, 437A-442B, 443A-448B, 455-460
(GM.A.4.a) Represent three-dimensional figures using nets made up of rectangles and triangles.	**SE:** 427-432, 437-442, 443-448, 455-460 **TE:** 427A-432B, 437A-442B, 443A-448B, 455-460
(GM.A.4.b) Use nets to find the surface area of three-dimensional figures whose sides are made up of rectangles and triangles.	**SE:** 427-432, 437-442, 443-448, 455-460 **TE:** 427A-432B, 437A-442B, 443A-448B, 455-460

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(DSP) Data Analysis, Statistics and Probability	
(DSP.A) Develop understanding of statistical variability.	
(DSP.A.1) Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.	**SE:** 469-474, 519-522 **TE:** 469A-474B, 519-522
(DSP.A.2) Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread and overall shape.	**SE:** 509-514, 519-522 **TE:** 509A-514B, 519-522
(DSP.A.3) Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary from a single number.	**SE:** 475-482, 519-522 **TE:** 475A-482B, 519-522
(DSP.B) Summarize and describe distributions.	
(DSP.B.1) Display and interpret data.	**SE:** 469-474, 483-488, 489-494, 497-502, 509-514, 519-522 **TE:** 469A-474B, 483A-488B, 489A-494B, 497A-502B, 509A-514B, 519-522
(DSP.B.1.a) Use dot plots, histograms and box plots to display and interpret numerical data.	**SE:** 469-474, 483-488, 489-494, 497-502, 509-514, 519-522 **TE:** 469A-474B, 483A-488B, 489A-494B, 497A-502B, 509A-514B, 519-522
(DSP.B.1.b) Create and interpret circle graphs.	**This standard is not addressed.**
(DSP.B.2) Summarize numerical data sets in relation to the context.	**SE:** 475-482, 489-494, 497-502, 503-508, 509-514, 519-522 **TE:** 475A-482B, 489A-494B, 497A-502B, 503A-508B, 509A-514B, 519-522
(DSP.B.2.a) Report the number of observations.	**SE:** 489-494, 519-522 **TE:** 489A-494B, 519-522
(DSP.B.2.b) Describe the nature of the attribute under investigation, including how it was measured and its units of measurement.	**SE:** 509-514, 519-522 **TE:** 509A-514B, 519-522

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(DSP.B.2.c) Give quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context of the data.	**SE:** 475-482, 497-502, 503-508, 509-514, 519-522 **TE:** 475A-482B, 497A-502B, 503A-508B, 509A-514B, 519-522
(DSP.B.2.d) Analyze the choice of measures of center and variability based on the shape of the data distribution and/or the context of the data.	**SE:** 503-508, 519-522 **TE:** 503A-508B, 519-522

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Ratios and Proportional Relationships	**7.RP**
(RP.A) Analyze proportional relationships and use them to solve problems.	
(RP.A.1) Compute unit rates, including those that involve complex fractions, with like or different units.	**SE:** 89-94, 95-100, 131-134 **TE:** 89A-94B, 95A-100B, 131-134
(RP.A.2) Recognize and represent proportional relationships between quantities.	**SE:** 101-106, 107-112, 119-124, 131-134, 143-148, 149-154, 155-160, 185-188, 331-338, 357-360, 375-380, 417-422 **TE:** 101A-106B, 107A-112B, 119A-124B, 131-134, 143A-143B, 149A-149B, 155A-160B, 185-188, 331A-338B, 375A-380B, 417-422
(RP.A.2.a) Determine when two quantities are in a proportional relationship.	**SE:** 101-106, 119-124, 131-134, 143-148, 185-188 **TE:** 101A-106B, 119A-124B, 131-134, 143A-143B, 185-188
(RP.A.2.b) Identify and/or compute the constant of proportionality (unit rate).	**SE:** 107-112, 119-124, 131-134, 143-148, 185-188 **TE:** 107A-112B, 119A-124B, 143-148, 143A-143B, 185-188
(RP.A.2.c) Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation.	**SE:** 119-124, 131-134 **TE:** 119A-124B, 131-134
(RP.A.2.d) Recognize that the graph of any proportional relationship will pass through the origin.	**SE:** 119-124, 131-134 **TE:** 119A-124B, 131-134
(RP.A.3) Solve problems involving ratios, rates, percentages and proportional relationships.	**SE:** 89-94 95-100, 125-130, 131-134, 143-148, 149-154, 155-160, 163-168, 173-178, 179-184, 185-188 **TE:** 89A-94B, 95A-100B, 125A-130B, 131-134, 143A-143B, 149A-149B, 155A-160B, 163A-168B, 173A-178B, 179A-184B, 185-188
(NS.A) Apply and extend previous understandings of operations to add, subtract, multiply and divide rational numbers.	
(NS.A.1) Apply and extend previous understandings of numbers to add and subtract rational numbers.	**SE:** 9-14, 21-26, 27-32, 33-38, 75-80 **TE:** 9A-14B, 21A-26B, 27A-32B, 33A-38B, 75-80
(NS.A.1.a) Add and subtract rational numbers.	**SE:** 9-14, 21-26, 27-32, 33-38, 75-80 **TE:** 9A-14B, 21A-26B, 27A-32B, 33A-38B, 75-80

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(NS.A.1.b) Represent addition and subtraction on a horizontal or vertical number line.	**SE:** 9-14, 21-26, 27-32, 33-38, 75-80 **TE:** 9A-14B, 21A-26B, 27A-32B, 33A-38B, 75-80
(NS.A.1.c) Describe situations and show that a number and its opposite have a sum of 0 (additive inverses).	**SE:** 9-14, 75-80 **TE:** 9A-14B, 75-80
(NS.A.1.d) Understand subtraction of rational numbers as adding the additive inverse.	**SE:** 27-32, 33-38, 75-80 **TE:** 27A-32B, 33A-38B, 75-80
(NS.A.1.e) Determine the distance between two rational numbers on the number line is the absolute value of their difference.	**SE:** 27-32, 33-38, 75-80 **TE:** 27A-32B, 33A-38B, 75-80
(NS.A.1.f) Interpret sums and differences of rational numbers.	**SE:** 21-26, 27-32, 33-38, 75-80 **TE:** 21A-26B, 27A-32B, 33A-38B, 75-80
(NS.A.2) Apply and extend previous understandings of numbers to multiply and divide rational numbers.	**SE:** 15-20, 41-46, 47-52, 53-58, 59-64, 75-80 **TE:** 15A-20B, 41A-46B, 47A-52B, 53A-58B, 59A-64B, 75-80
(NS.A.2.a) Multiply and divide rational numbers.	**SE:** 41-46, 47-52, 53-58, 59-64, 65 – 70, 75-80 **TE:** 41A-46B, 47A-52B, 53A-58B, 59A-64B, 65A - 70B, 75-80
(NS.A.2.b) Determine that a number and its reciprocal have a product of 1 (multiplicative inverse).	**SE:** 41-46, 47-52, 75-80 **TE:** 41A-46B, 47A-52B, 75-80
(NS.A.2.c) Understand that every quotient of integers (with non-zero divisor) is a rational number.	**SE:** 53-58, 59-64, 75-80 **TE:** 53A-58B, 59A-64B, 75-80
(NS.A.2.d) Convert a rational number to a decimal.	**SE:** 15-20, 75-80 **TE:** 15A-20B, 75-80
(NS.A.2.e) Understand that all rational numbers can be written as fractions or decimal numbers that terminate or repeat.	**SE:** 15-20, 75-80 **TE:** 15A-20B, 75-80
(NS.A.2.f) Interpret products and quotients of rational numbers by describing real-world contexts.	**SE:** 65 – 70, 75-80 **TE:** 65A - 70B, 75-80

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(NS.A.3) Solve problems involving the four arithmetic operations with rational numbers.	**SE:** 65-70, 75-80, 481-486, 487-492, 493-498 **TE:** 65A-70B, 75-80, 481A-486B, 487A-492B, 493-498
(EEI) Expressions, Equations and Inequalities	
(EEI.A) Use properties of operations to generate equivalent expressions.	
(EEI.A.1) Apply properties of operations to simplify and to factor linear algebraic expressions with rational coefficients.	**SE:** 203-208, 209-214, 215-220, 221-226, 233-238, 239-244, 251-254 **TE:** 203A-208B, 209A-214B, 215A-220B, 221A-226B, 233A-238B, 239A-244B, 251-254
(EEI.A.2) Understand how to use equivalent expressions to clarify quantities in a problem.	**SE:** 215-220, 221-226, 233-238, 239-244, 245-250, 251-254 **TE:** 215A-220B, 221A-226B, 233A-238B, 239A-244B, 245A-250B, 251-254
(EEI.B) Solve problems using numerical and algebraic expressions and equations.	
(EEI.B.1) Solve multi-step problems posed with rational numbers.	**SE:** 65-70, 75-80, 197-202, 251-254, 269-274, 275-280, 311-314, 331-338, 357-360, 369-374, 387-392, 417-422, 465-470, 481-486, 487-492, 493-498 **TE:** 65A-70B, 75-80, 197A-202B, 251-254, 269A-274B, 275A-280B, 311-314, 331A-338B, 357-360, 369A-374B, 387A-392B, 417-422, 465A-470B, 481A-486B, 487A-492B, 493-498
(EEI.B.1.a) Convert between equivalent forms of the same number.	**SE:** 197 - 202, 203 – 208, 245 – 250, 251 - 254 **TE:** 197A - 202B, 203A - 208B, 245A - 250B, 251 - 254
(EEI.B.1.b) Assess the reasonableness of answers using mental computation and estimation strategies.	**SE:** 197 - 202, 251 - 254 **TE:** 197A - 202B, 251 - 254
(EEI.B.2) Write and/or solve linear equations and inequalities in one variable.	
(EEI.B.2.a) Write and/or solve equations of the form x+p = q and px = q in which p and q are rational numbers.	**SE:** 197-202, 251-254, 263-268, 269-274, 275-280, 311-314, 457-462, 465-470, 481-486, 487-492, 493-498 **TE:** 197A-202B, 251-254, 263A-263B, 269A-274B, 275A-280B, 311-314, 457A-462B, 465A-470B, 481A-486B, 487A-492B, 493-498

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(EEI.B.2.b) Write and/or solve two-step equations of the form px + q = r and p(x + q) = r, where p, q and r are rational numbers, and interpret the meaning of the solution in the context of the problem.	**SE:** 197-202, 251-254, 263-268, 269-274, 275-280, 311-314, 457-462, 465-470, 481-486, 487-492, 493-498 **TE:** 197A-202B, 251-254, 263A-263B, 269A-274B, 275A-280B, 311-314, 457A-462B, 465A-470B, 481A-486B, 487A-492B, 493-498
(EEI.B.2.c) Write, solve and/or graph inequalities of the form px + q > r or px + q < r, where p, q and r are rational numbers.	**SE:** 283-288, 289-294, 299-304, 305-310, 311-314 **TE:** 283A-288B, 289A-294B, 299A-304B, 305A-310B, 311-314
(GM) Geometry and Measurement	
(GM.A) Draw and describe geometrical figures and describe the relationships between them.	
(GM.A.1) Solve problems involving scale drawings of real objects and geometric figures, including computing actual lengths and areas from a scale drawing and reproducing the drawing at a different scale.	**SE:** 431-436, 493-498 **TE:** 431A-436B, 493-498
(GM.A.2) Use a variety of tools to construct geometric shapes.	**SE:** 437-442, 443-450, 493-498 **TE:** 437A-424B, 443A-450B, 493-498
(GM.A.2.a) Determine if provided constraints will create a unique triangle through construction.	**SE:** 437-442, 443-450, 493-498 **TE:** 437A-424B, 443A-450B, 493-498
(GM.A.2.b) Construct special quadrilaterals given specific parameters.	**SE:** 437-442, 443-450, 493-498 **TE:** 437A-424B, 443A-450B, 493-498
(GM.A.3) Describe two-dimensional cross sections of pyramids, prisms, cones and cylinders.	**SE:** 475-480, 493-498 **TE:** 475A-480B, 493-498
(GM.A.4) Understand concepts of circles.	**SE:** 457-462, 465-470, 493-498 **TE:** 457A-462B, 465A-470B, 493-498
(GM.A.4.a) Analyze the relationships among the circumference, the radius, the diameter, the area and Pi in a circle.	**SE:** 457-462, 465-470, 493-498 **TE:** 457A-462B, 465A-470B, 493-498
(GM.A.4.b) Know and apply the formulas for circumference and area of circles to solve problems.	**SE:** 457-462, 465-470, 493-498 **TE:** 457A-462B, 465A-470B, 493-498

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(GM.B) Apply and extend previous understanding of angle measure, area and volume.	
(GM.B.1) Use angle properties to write and solve equations for an unknown angle.	**SE:** 451-456, 493-498 **TE:** 451A-456B, 493-498
(GM.B.2) Understand the relationship between area, surface area and volume.	**SE:** 481-486, 487-492, 493-498 **TE:** 481A-486B, 487A-492B, 493-498
(GM.B.2.a) Find the area of triangles, quadrilaterals and other polygons composed of triangles and rectangles.	**SE:** 481-486, 487-492, 493-498 **TE:** 481A-486B, 487A-492B, 493-498
(GM.B.2.b) Find the volume and surface area of prisms, pyramids and cylinders.	**SE:** 481-486, 487-492, 493-498 **TE:** 481A-486B, 487A-492B, 493-498
(DSP) Data Analysis, Statistics and Probability	
(DSP.A) Use random sampling to draw inferences about a population.	
(DSP.A.1) Understand that statistics can be used to gain information about a population by examining a sample of the population.	**SE:** 323-330, 331-338, 357-360 **TE:** 323A-330B, 331A-338B, 357-360
(DSP.A.1.a) Understand that a sample is a subset of a population.	**SE:** 323-330, 331-338, 357-360 **TE:** 323A-330B, 331A-338B, 357-360
(DSP.A.1.b) Understand that generalizations from a sample are valid only if the sample is representative of the population.	**SE:** 323-330, 331-338, 357-360 **TE:** 323A-330B, 331A-338B, 357-360
(DSP.A.1.c) Understand that random sampling is used to produce representative samples and support valid inferences.	**SE:** 323-330, 331-338, 357-360 **TE:** 323A-330B, 331A-338B, 357-360
(DSP.A.2) Use data from multiple samples to draw inferences about a population and investigate variability in estimates of the characteristic of interest.	**SE:** 331-338, 357-360 **TE:** 331A-338B, 357-360
(DSP.B) Draw informal comparative inferences about two populations.	**SE:** 341-346, 347-352, 357-360 **TE:** 341A-346B, 347A-352B, 357-360
(DSP.B.1) Analyze different data distributions using statistical measures.	**SE:** 341-346, 347-352, 357-360 **TE:** 341A-346B, 347A-352B, 357-360

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(DSP.B.2) Compare the numerical measures of center, measures of frequency and measures of variability from two random samples to draw inferences about the population.	**SE:** 341-346, 347-352, 357-360 **TE:** 341A-346B, 347A-352B, 357-360
(DSP.C) Develop, use and evaluate probability models.	
(DSP.C.1) Investigate the probability of chance events.	**SE:** 369-374, 417-422 **TE:** 369A-374B, 417-422
(DSP.C.1.a) Determine probabilities of simple events.	**SE:** 369-374, 417-422 **TE:** 369A-374B, 417-422
(DSP.C.1.b) Understand that the probability of a chance event is a number between 0 and 1 that expresses the likelihood of the event occurring.	**SE:** 369-374, 417-422 **TE:** 369A-374B, 417-422
(DSP.C.2) Investigate the relationship between theoretical and experimental probabilities for simple events.	**SE:** 375-380, 381-386, 417-422 **TE:** 375A-380B, 381A-386B, 417-422
(DSP.C.2.a) Predict outcomes using theoretical probability.	**SE:** 375-380, 417-422 **TE:** 375A-380B, 417-422
(DSP.C.2.b) Perform experiments that model theoretical probability.	**SE:** 375-380, 417-422 **TE:** 375A-380B, 417-422
(DSP.C.2.c) Compare theoretical and experimental probabilities.	**SE:** 375-380, 381-386, 417-422 **TE:** 375A-380B, 381A-386B, 417-422
(DSP.C.3) Explain possible discrepancies between a developed probability model and observed frequencies.	**SE:** 381-386, 387-392, 417-422 **TE:** 381A-386B, 387A-392B, 417-422
(DSP.C.3.a) Develop a uniform probability model by assigning equal probability to all outcomes, and use the model to determine probabilities of events.	**SE:** 381-386, 387-392, 417-422 **TE:** 381A-386B, 387A-392B, 417-422
(DSP.C.3.b) Develop a probability model (which may not be uniform) by observing frequencies in data generated from a chance process.	**SE:** 387-392, 417-422 **TE:** 387A-392B, 417-422

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(DSP.C.4) Find probabilities of compound events using organized lists, tables, tree diagrams and simulations.	**SE:** 399-404, 405-410, 411-416, 417-422 **TE:** 399A-404B, 405A-410B, 411A-416B, 417-422
(DSP.C.4.a) Represent the sample space of a compound event.	**SE:** 399-404, 417-422 **TE:** 399A-404B, 417-422
(DSP.C.4.b) Design and use a simulation to generate frequencies for compound events.	**SE:** 411-416, 417-422 **TE:** 411A-416B, 417-422

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(NS) Number Sense and Operations	
(NS.A) Know that there are numbers that are not rational, and approximate them by rational numbers.	
(NS.A.1) Explore the real number system.	**SE:** 9-14, 15-20, 75-80 **TE:** 9A-14B, 15A-20B, 75-80
(NS.A.1.a) Know the differences between rational and irrational numbers.	**SE:** 9-14, 15-20, 75-80 **TE:** 9A-14B, 15A-20B, 75-80
(NS.A.1.b) Understand that all rational numbers have a decimal expansion that terminates or repeats.	**SE:** 9-14, 15-20, 75-80 **TE:** 9A-14B, 15A-20B, 75-80
(NS.A.1.c) Convert decimals which repeat into fractions and fractions into repeating decimals.	**SE:** 9-14, 15-20, 75-80 **TE:** 9A-14B, 15A-20B, 75-80
(NS.A.1.d) Generate equivalent representations of rational numbers.	**SE:** 9-14, 15-20, 75-80 **TE:** 9A-14B, 15A-20B, 75-80
(NS.A.2) Estimate the value and compare the size of irrational numbers and approximate their locations on a number line.	**SE:** 21-26, 75-80 **TE:** 21A-26B, 75-80
(EEI) Expressions, Equations and Inequalities	
(EEI.A) Work with radicals and integer exponents.	
(EEI.A.1) Know and apply the properties of integer exponents to generate equivalent expressions.	**SE:** 41-46, 47-52, 75-80 **TE:** 41A-46B, 47A-52B, 75-80
(EEI.A.2) Investigate concepts of square and cube roots.	**SE:** 27-32, 33-38, 75-80 **TE:** 27A-32B, 33A-38B, 75-80
(EEI.A.2.a) Solve equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number.	**SE:** 27-32, 33-38, 75-80 **TE:** 27A-32B, 33A-38B, 75-80
(EEI.A.2.b) Evaluate square roots of perfect squares less than or equal to 625 and cube roots of perfect cubes less than or equal to 1000.	**SE:** 27-32, 33-38, 75-80 **TE:** 27A-32B, 33A-38B, 75-80
(EEI.A.2.c) Recognize that square roots of non-perfect squares are irrational.	**SE:** 27-32, 33-38, 75-80 **TE:** 27A-32B, 33A-38B, 75-80
(EEI.A.3) Express very large and very small quantities in scientific notation and approximate how many times larger one is than the other.	**SE:** 53-58, 75-80 **TE:** 53A-58B, 75-80

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(EEI.A.4) Use scientific notation to solve problems.	**SE:** 59-64, 69-74, 75-80 **TE:** 59A-64B, 69A-74B, 75-80
(EEI.A.4.a) Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used.	**SE:** 59-64, 69-74, 75-80 **TE:** 59A-64B, 69A-74B, 75-80
(EEI.A.4.b) Use scientific notation and choose units of appropriate size for measurements of very large or very small quantities.	**SE:** 59-64, 69-74, 75-80 **TE:** 59A-64B, 69A-74B, 75-80
(EEI.B) Understand the connections between proportional relationships, lines and linear equations.	
(EEI.B.1) Graph proportional relationships.	**SE:** 121-126, 151-156 **TE:** 121A-126B, 151-156
(EEI.B.1.a) Interpret the unit rate as the slope of the graph.	**SE:** 121-126, 151-156 **TE:** 121A-126B, 151-156
(EEI.B.1.b) Compare two different proportional relationships.	**SE:** 121-126, 151-156 **TE:** 121A-126B, 151-156
(EEI.B.2) Apply concepts of slope and y-intercept to graphs, equations and proportional relationships.	**SE:** 127-132, 133-138, 139-144, 145-150, 151-156 **TE:** 127A-132B, 133A-138B, 139A-144B, 145A-150B, 151-156
(EEI.B.2.a) Explain why the slope (m) is the same between any two distinct points on a non-vertical line in the Cartesian coordinate plane.	**SE:** 127-132, 151-156 **TE:** 127A-132B, 151-156
(EEI.B.2.b) Derive the equation y = mx for a line through the origin and the equation y = mx + b for a line intercepting the vertical axis at b.	**SE:** 133-138, 139-144, 145-150, 151-156 **TE:** 133A-138B, 139A-144B, 145A-150B, 151-156
(EEI.C) Analyze and solve linear equations and inequalities and pairs of simultaneous linear equations.	
(EEI.C.1) Solve linear equations and inequalities in one variable.	**SE:** 89-94, 95-100, 101-106, 107-114, 151-156 **TE:** 89A-94B, 95A-100B, 101A-106B, 107A-114B, 151-156

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(EEI.C.1.a) Create and identify linear equations with one solution, infinitely many solutions or no solutions.	**SE:** 89-94, 95-100, 101-106, 107-114, 151-156 **TE:** 89A-94B, 95A-100B, 101A-106B, 107A-114B, 151-156
(EEI.C.1.b) Solve linear equations and inequalities with rational number coefficients, including equations and inequalities whose solutions require expanding expressions using the distributive property and combining like terms.	**SE:** 89-94, 95-100, 101-106, 107-114, 151-156 **TE:** 89A-94B, 95A-100B, 101A-106B, 107A-114B, 151-156
(EEI.C.2) Analyze and solve systems of linear equations.	**SE:** 267-272, 273-278, 281-286, 287-292, 297-300 **TE:** 267A-272B, 273A-273B, 281A-286B, 287A-292B, 297-300
(EEI.C.2.a) Graph systems of linear equations and recognize the intersection as the solution to the system.	**SE:** 273-278, 297-300 **TE:** 273A-273B, 297-300
(EEI.C.2.b) Explain why solution(s) to a system of two linear equations in two variables correspond to point(s) of intersection of the graphs.	**SE:** 273-278, 297-300 **TE:** 273A-273B, 297-300
(EEI.C.2.c) Explain why systems of linear equations can have one solution, no solution or infinitely many solutions.	**SE:** 267-272, 273-278, 281-286, 287-292, 297-300 **TE:** 267A-272B, 273A-273B, 281A-286B, 287A-292B, 297-300
(EEI.C.2.d) Solve systems of two linear equations.	**SE:** 267-272, 273-278, 281-286, 287-292, 297-300 **TE:** 267A-272B, 273A-273B, 281A-286B, 287A-292B, 297-300
(GM) Geometry and Measurement	
(GM.A) Understand congruence and similarity using physical models, transparencies or geometry software.	
(GM.A.1) Verify experimentally the congruence properties of rigid transformations.	**SE:** 309-314, 315-320, 321-326, 327-332, 337-342, 377-382 **TE:** 309A-314B, 315A-320B, 321A-326B, 327A-332B, 337A-342B, 377-382
(GM.A.1.a) Verify that angle measure, betweenness, collinearity and distance are preserved under rigid transformations.	**SE:** 309-314, 315-320, 321-326, 327-332, 377-382 **TE:** 309A-314B, 315A-320B, 321A-326B, 327A-332B, 377-382

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(GM.A.1.b) Investigate if orientation is preserved under rigid transformations.	**SE:** 309-314, 315-320, 321-326, 327-332, 337-342, 377-382 **TE:** 309A-314B, 315A-320B, 321A-326B, 327A-332B, 337A-342B, 377-382
(GM.A.2) Understand that two-dimensional figures are congruent if a series of rigid transformations can be performed to map the pre-image to the image.	**SE:** 337-342, 377-382 **TE:** 337A-342B, 377-382
(GM.A.2.a) Describe a possible sequence of rigid transformations between two congruent figures.	**SE:** 337-342, 377-382 **TE:** 337A-342B, 377-382
(GM.A.3) Describe the effect of dilations, translations, rotations and reflections on two-dimensional figures using coordinates.	**SE:** 309-314, 315-320, 321-326, 327-332, 337-342, 345-350, 351-356, 377-382 **TE:** 309A-314B, 315A-320B, 321A-326B, 327A-332B, 337A-342B, 345A-350B, 351A-356B, 377-382
(GM.A.4) Understand that two-dimensional figures are similar if a series of transformations (rotations, reflections, translations and dilations) can be performed to map the pre-image to the image.	**SE:** 345-350, 351-356, 377-382 **TE:** 345A-350B, 351A-356B, 377-382
(GM.A.4.a) Describe a possible sequence of transformations between two similar figures.	**SE:** 345-350, 351-356, 377-382 **TE:** 345A-350B, 351A-356B, 377-382
(GM.A.5) Explore angle relationships and establish informal arguments.	**SE:** 357-364, 365-370, 371-376, 377-382 **TE:** 357A-364B, 365A-370B, 371A-376B, 377-382
(GM.A.5.a) Derive the sum of the interior angles of a triangle.	**SE:** 365-370, 377-382 **TE:** 365A-370B, 377-382
(GM.A.5.b) Explore the relationship between the interior and exterior angles of a triangle.	**SE:** 365-370, 377-382 **TE:** 365A-370B, 377-382
(GM.A.5.c) Construct and explore the angles created when parallel lines are cut by a transversal.	**SE:** 357-364, 377-382 **TE:** 357A-364B, 377-382
(GM.A.5.d) Use the properties of similar figures to solve problems.	**SE:** 371-376, 377-382 **TE:** 371A-376B, 377-382

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(GM.B) Understand and apply the Pythagorean Theorem.	
(GM.B.1) Use models to demonstrate a proof of the Pythagorean Theorem and its converse.	**SE:** 395-400, 401-406, 421-424 **TE:** 395A-400B, 401A-406B, 421-424
(GM.B.2) Use the Pythagorean Theorem to determine unknown side lengths in right triangles in problems in two- and three-dimensional contexts.	**SE:** 395-400, 401-406, 409-414, 421-424 **TE:** 395A-400B, 401A-406B, 409A-414B, 421-424
(GM.B.3) Use the Pythagorean Theorem to find the distance between points in a Cartesian coordinate system.	**SE:** 415-420, 421-424 **TE:** 415A-420B, 421-424
(GM.C) Solve problems involving volume of cones, pyramids and spheres.	
(GM.C.1) Solve problems involving surface area and volume.	**SE:** 433 – 438, 439 – 444, 447 – 452, 453 – 458, 463 – 466 **TE:** 433A - 438B, 439A - 444B, 447A - 452B, 453A - 458B, 463 - 466
(GM.C.1.a) Understand the concept of surface area and find surface area of pyramids.	**SE:** 433 – 438, 463 - 466 **TE:** 433A - 438B, 463 - 466
(GM.C.1.b) Understand the concepts of volume and find the volume of pyramids, cones and spheres.	**SE:** 439 – 444, 447 – 452, 453 – 458, 463 - 466 **TE:** 439A - 444B, 447A - 452B, 453A - 458B, 463 - 466
(DSP) Data Analysis, Statistics and Probability	
(DSP.A) Investigate patterns of association in bivariate data.	
(DSP.A.1) Construct and interpret scatter plots of bivariate measurement data to investigate patterns of association between two quantities.	**SE:** 219-224, 255-258 **TE:** 219A-224B, 255-258
(DSP.A.2) Generate and use a trend line for bivariate data, and informally assess the fit of the line.	**SE:** 225-230, 255-258 **TE:** 225A-230B, 255-258
(DSP.A.3) Interpret the parameters of a linear model of bivariate measurement data to solve problems.	**SE:** 231-236, 255-258 **TE:** 231A-236B, 255-258
(DSP.A.4) Understand the patterns of association in bivariate categorical data displayed in a two-way table.	**SE:** 239-244, 245-250, 255-258 **TE:** 239A-244B, 245A-250B, 255-258

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(DSP.A.4.a) Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects.	**SE:** 239-244, 245-250, 255-258 **TE:** 239A-244B, 245A-250B, 255-258
(DSP.A.4.b) Use relative frequencies calculated for rows or columns to describe possible association between the two variables.	**SE:** 239-244, 245-250, 255-258 **TE:** 239A-244B, 245A-250B, 255-258
(F) Functions	
(F.A) Define, evaluate and compare functions.	
(F.A.1) Explore the concept of functions. (The use of function notation is not required.)	**SE:** 165-170, 171-176, 207-210 **TE:** 165A-170B, 171A-176B, 207-210
(F.A.1.a) Understand that a function assigns to each input exactly one output.	**SE:** 165-170, 207-210 **TE:** 165A-170B, 207-210
(F.A.1.b) Determine if a relation is a function.	**SE:** 165-170, 207-210 **TE:** 165A-170B, 207-210
(F.A.1.c) Graph a function.	**SE:** 189 – 194, 195 – 200, 201 – 206, 207-210 **TE:** 189A - 194B, 195A - 200B, 201A - 206B, 207-210
(F.A.2) Compare characteristics of two functions each represented in a different way.	**SE:** 177-182, 189-194, 207-210 **TE:** 177A-182B, 189A-194B, 207-210
(F.A.3) Investigate the differences between linear and nonlinear functions.	**SE:** 177-182, 207-210, 225-230, 231-236, 255-258 **TE:** 177A-182B, 207-210, 225A-230B, 231A-236B, 255-258
(F.A.3.a) Interpret the equation y = mx + b as defining a linear function, whose parameters are the slope (m) and the y-intercept (b).	**SE:** 177-182, 207-210, 225-230, 231-236, 255-258 **TE:** 177A-182B, 207-210, 225A-230B, 231A-236B, 255-258
(F.A.3.b) Recognize that the graph of a linear function has a constant rate of change	**SE:** 177-182, 207-210, 225-230, 231-236, 255-258 **TE:** 177A-182B, 207-210, 225A-230B, 231A-236B, 255-258
(F.A.3.c) Give examples of nonlinear functions.	**SE:** 177-182, 255-258 **TE:** 177A-182B, 255-258

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(F.B) Use functions to model relationships between quantities.	
(F.B.1) Use functions to model linear relationships between quantities.	**SE:** 189-194, 207-210, 225-230, 231-236, 255-258 **TE:** 189A-194B, 207-210, 225A-230B, 231A-236B, 255-258
(F.B.1.a) Explain the parameters of a linear function based on the context of a problem.	**SE:** 189-194, 207-210, 225-230, 231-236, 255-258 **TE:** 189A-194B, 207-210, 225A-230B, 231A-236B, 255-258
(F.B.1.b) Determine the parameters of a linear function.	**SE:** 189-194, 207-210, 225-230, 231-236, 255-258 **TE:** 189A-194B, 207-210, 225A-230B, 231A-236B, 255-258
(F.B.1.c) Determine the x-intercept of a linear function.	**SE:** 189-194, 207-210, 225-230, 231-236, 255-258 **TE:** 189A-194B, 207-210, 225A-230B, 231A-236B, 255-258
(F.B.2) Describe the functional relationship between two quantities from a graph or a verbal description.	**SE:** 195-200, 201-206, 207-210 **TE:** 195A-200B, 201A-206B, 207-210