

Evidence Statement Tables

Grade 8 Mathematics

Evidence Statement Keys

Evidence statements describe the knowledge and skills that an assessment item/task elicits from students. These are derived directly from the Common Core State Standards for Mathematics (the standards), and they highlight the advances of the standards, especially around their focused coherent nature. The evidence statement keys for grades 3 through 8 will begin with the grade number. High school evidence statement keys will begin with “HS” or with the label for a conceptual category.

An Evidence Statement might:

1. Use exact standard language – For example:

- 8.EE.1 - Know and apply the properties of integer exponents to generate equivalent numerical expressions. *For example, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$.* This example uses the exact language as standard 8.EE.1

2. Be derived by focusing on specific parts of a standard – For example: 8.F.5-1 and 8.F.5-2 were derived from splitting standard 8.F.5:

- 8.F.5-1 Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear).
- 8.F.5-2 Sketch a graph that exhibits the qualitative features of a function that has been described verbally.

Together these two evidence statements are standard 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.

3. Be integrative (Int) – Integrative evidence statements allow for the testing of more than one of the standards on a single item/task without going beyond the standards to create new requirements. An integrative evidence statement might be integrated across all content within a grade/course, all standards in a high school conceptual category, all standards in a domain, or all standards in a cluster. For example:

- **Grade/Course** – **4.Int.2¹** (Integrated across Grade 4)
- **Conceptual Category** – **F.Int.1¹** (Integrated across the Functions Conceptual Category)
- **Domain** – **4.NBT.Int.1¹** (Integrated across the Number and Operations in Base Ten Domain)
- **Cluster** – **3.NF.A.Int.1¹** (Integrated across the Number and Operations – Fractions Domain, Cluster A)

4. Focus on mathematical reasoning– A reasoning evidence statement (keyed with C) will state the type of reasoning that an item/task will require and the content scope from the standard that the item/task will require the student to reason about. For example:

- 3.C.2¹ -- Base explanations/reasoning on the relationship between addition and subtraction or the relationship between multiplication and division.
 - Content Scope: Knowledge and skills are articulated in 3.OA.6
- 7.C.6.1¹ – Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures.
 - Content Scope: Knowledge and skills are articulated in 7.RP.2

Note: When the focus of the evidence statement is on reasoning, the evidence statement may also require the student to reason about securely held knowledge from a previous grade.

5. Focus on mathematical modeling – A modeling evidence statement (keyed with D) will state the type of modeling that an item/task will require and the content scope from the standard that the item/task will require the student to model about. For example:

- 4.D.2¹ – Solve multi-step contextual problems with degree of difficulty appropriate to Grade 4 requiring application of knowledge and skills articulated in 3.OA.A, 3.OA.8,3.NBT, and/or 3.MD.

Note: The example 4.D.2 is of an evidence statement in which an item/task aligned to the evidence statement will require the student to model on grade level, using securely held knowledge from a previous grade.

- HS.D.5¹ - Given an equation or system of equations, reason about the number or nature of the solutions.
 - Content scope: A-REI.11, involving any of the function types measured in the standards.

¹ The numbers at the end of the integrated, modeling and reasoning Evidence Statement keys are added for assessment clarification and tracking purposes. For example, 4.Int.2 is the second integrated Evidence Statement in Grade 4.

Grade 8 Evidence Statements

Listing by Type I, Type II, and Type III

The PARCC Evidence Statements for Grade 3 Mathematics are provided starting on the next page. The list has been organized to indicate whether items designed are aligned to an Evidence Statement used for Type I items (sub-claims A and B), Type II items (reasoning/sub-claim C), or Type III items (modeling/sub-claim D).

Evidence Statements are presented in the order shown below and are color coded:

Peach – Evidence Statement is applicable to Type I items.

Lavender – Evidence Statement is applicable to Type II items.

Aqua – Evidence Statement is applicable to Type III items.

Grade 8 Evidence Statements

Type I
Type II
Type III

| Sub-Claim | Evidence Statement Key | Evidence Statement Text | Clarifications, limits, emphases, and other information intended to ensure appropriate variety in tasks | Relationship to MPs | Calculator |
|--|------------------------|--|--|----------------------|------------|
| Sub-claim A (20 of 52 points) & Sub-claim B (10 of 52 points) | | | | | |
| B | 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. | <ul style="list-style-type: none"> i) Tasks do not have a context. ii) An equal number of tasks require students to write a fraction a/b as a repeating decimal, or write a repeating decimal as a fraction. iii) For tasks that involve writing a repeating decimal as a fraction, the given decimal should include no more than two repeating decimals without non-repeating digits after the decimal point (i.e. 2.1666..., 0.23232323...). | MP.7 MP.8 | No |
| B | 8.NS.2 | Use rational approximations of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g. π^2). <i>For example, by truncating the decimal expansion of $\sqrt{2}$, 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.</i> | <ul style="list-style-type: none"> i) Tasks do not have a context. | MP.5 MP.7 MP.8 | No |
| A | 8.EE.1 | Know and apply the properties of integer exponents to generate equivalent numerical expressions. <i>For example, $3^2 \times 3^{-5} = 1/3^3 = 1/27$.</i> | <ul style="list-style-type: none"> i) Tasks do not have a context. ii) Tasks focus on the properties and equivalence, not on simplification. iii) Half of the expressions involve one property; half of the expressions involve two or three properties. iv) Tasks should involve a single common base or a potential common base, such as, a task that includes 3, 9 and 27. | MP.7 | No |
| A | 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. | <ul style="list-style-type: none"> i) Tasks may or may not have a context. ii) Students are not required to simplify expressions such as $\sqrt{8}$ to $2\sqrt{2}$. Students are required to express the square roots of 1, 4, 9, 16, 25, 36, 49, 64, 81 and 100; and the cube roots of 1, 8, 27, and 64. | MP.7 | No |
| A | 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. <i>For example, estimate the population of the United States as 3×10^8 and the population of the world as 7×10^9, and determine that the world population is more than 20 times larger.</i> | - | MP.4 | No |
| A | 8.EE.4-1 | Perform operations with numbers expressed in scientific notation, including problems where both decimal and scientific notation are used. | <ul style="list-style-type: none"> i) Tasks have “thin context”² or no context. ii) Rules or conventions for significant figures are not assessed. iii) Some of the tasks involve both decimal and scientific notation. | MP.6 MP.7 MP.8 | No |
| A | 8.EE.4-2 | 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. | <ul style="list-style-type: none"> i) Tasks have “thin context”². ii) Tasks require students to recognize $3.7E-2$ (or $3.7e-2$) from technology as 3.7×10^{-2}. | MP.6 MP.7 MP.8 | Yes |

Grade 8 Evidence Statements

Type I
Type II
Type III

| Sub-Claim | Evidence Statement Key | Evidence Statement Text | Clarifications, limits, emphases, and other information intended to ensure appropriate variety in tasks | Relationship to MPs | Calculator |
|-----------|------------------------|---|--|------------------------------|------------|
| A | 8.EE.5-1 | Graph proportional relationships, interpreting the unit rate as the slope of the graph. | i) Tasks may or may not contain context. | MP.1 MP.5 | Yes |
| A | 8.EE.5-2 | Compare two different proportional relationships represented in different ways. <i>For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has a greater speed.</i> | i) Tasks may or may not contain context. | MP.7 | Yes |
| A | 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. | i) Tasks do not have a context. ii) Given a non-vertical line in the coordinate plane, tasks might for example require students to choose two pairs of points and record the rise, run, and slope relative to each pair and verify that they are the same. iii) For the explain aspect of 8.EE.6, see 8.C.5.1. iv) Tasks may assess simple graphing of lines from a linear equation in slope-intercept form. | MP.2 MP.7 | Yes |
| A | 8.EE.7b | Solve linear equations in one variable. b. Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms | i) Tasks do not have a context. | MP.6 MP.7 | No |
| A | 8.EE.8a | Analyze and solve pairs of simultaneous linear equations. a. Understand that solutions to a system of two linear equations in two variables correspond to points of intersections of their graphs, because points of intersection satisfy both equations simultaneously. | i) Tasks do not have a context. | MP.2 MP.5 MP.6 MP.7 | No |
| A | 8.EE.8b-1 | Analyze and solve pairs of simultaneous linear equations. b. Solve systems of two linear equations in two variables algebraically. | i) An equal number of tasks have: <ul style="list-style-type: none"> • a zero coefficient, e.g., as in the system $-s + (3/4)t = 2, t = 6$, or; • non-zero whole-number coefficients, and whole-number solutions, or; • non-zero whole-number coefficients, and at least one fraction among the solutions, or; • non-zero integer coefficients (with at least one coefficient negative), or; • non-zero rational coefficients (with at least one coefficient negative and at least one coefficient a non-integer). | MP.1 MP.6 MP.7 | No |
| A | 8.EE.8b-2 | Analyze and solve pairs of simultaneous linear equations. b. Estimate solutions [to systems of two linear equations in two variables] by graphing the equations. | i) An equal number of tasks have: <ul style="list-style-type: none"> • a zero coefficient, e.g., as in the system $-s + (3/4)t = 2, t = 6$, or; • non-zero whole-number coefficients, and whole-number solutions, or; • non-zero whole-number coefficients, and at least one fraction among the solutions, or; • non-zero integer coefficients (with at least one coefficient negative), or; • non-zero rational coefficients (with at least one coefficient negative and at least one coefficient a non-integer). | MP.5 MP.6 MP.7 | No |

Grade 8 Evidence Statements

Type I
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|-----------|------------------------|--|--|------------------------------|------------|
| A | 8.EE.8b-3 | Analyze and solve pairs of simultaneous linear equations. b. Solve simple cases [of systems of two linear equations in two variables] by inspection. <i>For example, $3x + 2y = 5$ and $3x + 2y = 6$ have no solution because $3x + 2y$ cannot simultaneously be 5 and 6.</i> | i) Tasks have whole number or integer coefficients, one coefficient in either or both equations possibly zero. ii) Equal number of tasks involve: <ul style="list-style-type: none"> • inconsistent systems, where the inconsistency is plausibly visible by inspection as in the italicized example, or; • degenerate systems (infinitely many solutions), where the degeneracy is plausibly visible by inspection, as for example in $3x + 3y = 1$, $6x + 6y = 2$, or; • systems with a unique solution and one coefficient zero, where the solution is plausibly visible by inspection, as for example in $y = 1$, $3x + y = 1$. iii) Tasks assess solving by inspection. | MP.7 | No |
| A | 8.EE.8c | Analyze and solve pairs of simultaneous linear equations. c. Solve real-world and mathematical problems leading to two linear equations in two variables. <i>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.</i> | i) Tasks may have three equations, but students are only required to analyze two equations at a time. | MP.1 MP.5 MP.6 MP.7 | Yes |
| A | 8.EE.C.Int.1 | Solve word problems leading to linear equations in one variable whose solutions require expanding expressions using the distributive property and collecting like terms. | i) Most of the tasks involve contextual real-world word problems. | MP.4 MP.6 MP.7 | Yes |
| A | 8.F.1-1 | Understand that a function is a rule that assigns to each input exactly one output. | i) Tasks do not involve the coordinate plane or the “vertical line test.” ii) Some of the functions in tasks are non-numerical. iii) Tasks should involve clearly defined inputs and outputs. | MP.2 | No |
| A | 8.F.1-2 | [Understand that] the graph of a function is the set of ordered pairs consisting of an input and the corresponding output. | i) Functions are limited to those with inputs and outputs in the real numbers. ii) Most of the tasks require students to graph functions in the coordinate plane or read inputs and outputs from the graph of a function in the coordinate plane. iii) Some of the tasks require students to tell whether a set of points in the plane represents a function. iv) Tasks should involve clearly defined inputs and outputs. | MP.2 MP.5 | No |
| A | 8.F.2 | Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). <i>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 greatest rate of change.</i> | i) Tasks have “thin context” ² or no context. ii) Equations can be presented in forms other than $y = mx + b$, for example, $2x + 2y = 7$. | MP.2 MP.5 | Yes |

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|-----------|------------------------|--|---|----------------------|------------|
| A | 8.F.3-1 | Interpret the equation, $y=mx + b$ as defining a linear function, whose graph is a straight line. | i) Tasks have “thin context” ² or no context. ii) Equations can be presented in forms other than $y = mx + b$, for example, $2x + 2y = 7$. | MP.2 MP.7 | No |
| A | 8.F.3-2 | Give examples of functions that are not linear and prove that they are not linear. | i) Tasks have “thin context” ² or no context. ii) Tasks may require students to give examples of equations that are non-linear or pairs of points to show a function is non-linear. iii) Students are not required to produce a formal proof. For this aspect of 8.F.3, see 8.C.3.1. | MP.7 | No |
| B | 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, including reading these from a table or from a graph. | i) Tasks may or may not have a context. | MP.2 MP.4 | Yes |
| B | 8.F.5-1 | Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). | i) Tasks may or may not have a context. | MP.2 MP.5 | No |
| B | 8.F.5-2 | Sketch a graph that exhibits the qualitative features of a function that has been described verbally. | i) Tasks may or may not have a context. | MP.2 MP.5 MP.7 | No |
| A | 8.G.1a | Verify experimentally the properties of rotations, reflections, and translations: a. Lines are taken to lines, and line segments to line segments of the same length. | i) Tasks do not have a context. | MP.3 MP.5 MP.8 | No |
| A | 8.G.1b | Verify experimentally the properties of rotations, reflections, and translations: b. Angles are taken to angles of the same measure. | i) Tasks do not have a context. | MP.3 MP.5 MP.8 | No |
| A | 8.G.1c | Verify experimentally the properties of rotations, reflections, and translations: c. Parallel lines are taken to parallel lines. | i) Tasks do not have a context. | MP.3 MP.5 MP.8 | No |
| A | 8.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. | i) Tasks do not have a context. ii) Figures may be drawn in the coordinate plane, but do not include the use of coordinates. iii) Tasks require students to make connections between congruence and transformations. | MP.2 MP.7 | No |

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|-----------|------------------------|---|---|----------------------|------------|
| A | 8.G.3 | Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates. | <ul style="list-style-type: none"> i) Tasks have “thin context”² no context. ii) Tasks require the use of coordinates in the coordinate plane. iii) For items involving dilations, tasks must state the center of dilation. iv) Centers of dilation can be the origin, the center of the original shape or the vertices of the original shape. | MP.2 MP.3 MP.5 | No |
| A | 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. | <ul style="list-style-type: none"> i) Tasks do not have a context. ii) Figures may be drawn in the coordinate plane, but do not include the use of coordinates. iii) Tasks require students to make connections between similarity and transformations. | MP.2 MP.7 | No |
| A | 8.G.7-1 | Apply the Pythagorean Theorem in a simple planar case. | <ul style="list-style-type: none"> i) Tasks have “thin context”² or no context. ii) An equal number of tasks require the answer to be given as a whole number or as an irrational number written to approximately three decimal places. | - | Yes |
| A | 8.G.7-2 | Apply the Pythagorean Theorem in a simple three-dimensional case. | <ul style="list-style-type: none"> i) Tasks have “thin context”² or no context. ii) An equal number of tasks require the answer to be given as a whole number or as an irrational number written to approximately three decimal places. | - | Yes |
| A | 8.G.8 | Apply the Pythagorean Theorem to find the distance between two points in a coordinate system. | - | - | Yes |
| B | 8.G.9 | Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems. | - | MP.1 MP.5 | Yes |
| B | 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. | - | MP.3 MP.5 MP.7 | No |

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|-----------|------------------------|---|--|------------------------------|------------|
| B | 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. | - | MP.2 MP.5 MP.7 | No |
| B | 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. <i>For example, in a linear model for a biology experiment, interpret a slope of 1.5 cm/hr as meaning that an additional hour of sunlight each day is associated with an additional 1.5 cm in mature plant height.</i> | - | MP.2 MP.4 MP.6 MP.7 | Yes |
| B | 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. <i>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?</i> | i) An equal number of tasks require students to: <ul style="list-style-type: none"> • Answer basic comprehension questions about a two-way table, or; • To compute marginal sums or marginal percentages, or; • To interpret patterns or association. | MP.2 MP.4 MP.5 MP.7 | Yes |

Grade 8 Evidence Statements

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Type II
Type III

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|--------------------------------------|------------------------|---|--|--------------------------------------|------------|
| Sub-claim C (10 of 52 points) | | | | | |
| C | 8.C.1.1 | Base reasoning on the principle that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane. Content Scope: Knowledge and skills articulated in 8.EE.6. | i) Tasks require students to derive the equation $y=mx$ for a line through the origin and the equation $y=mx+b$ for a line intersecting the vertical axis at b . | MP.2 MP.3 MP.7 MP.8 | Yes |
| C | 8.C.1.2 | Base reasoning on the principle that the graph of an equation in two variables is the set of all its solutions plotted in the coordinate plane. Content Scope: Knowledge and skills articulated in 8.EE.8a. | - | MP.2 MP.3 MP.5 MP.6 MP.7 | Yes |
| C | 8.C.2 | Given an equation or system of equations, present the solution steps as a logical argument that concludes with the set of solutions (if any). Content Scope: Knowledge and skills articulated in 8.EE.7a, 8.EE.7b, 8.EE.8b. | i) Tasks may have three equations, but students are only required to analyze two equations at a time. | MP.3 MP.6 | Yes |
| C | 8.C.3.1 | Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures. Content Scope: Knowledge and skills articulated in 8.F.3-2. | i) Tasks require students to justify whether a given function is linear or nonlinear. | MP.3 MP.6 | Yes |
| C | 8.C.3.2 | Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures. Content Scope: Knowledge and skills articulated in 8.G.2, 8.G.4. | - | MP.3 MP.5 MP.6 | Yes |
| C | 8.C.3.3 | Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures. Content Scope: Knowledge and skills articulated in 8.G.5. | - | MP.3 MP.5 MP.6 | Yes |
| C | 8.C.4.1 | Present solutions to multi-step problems in the form of valid chains of reasoning, using symbols such as equals signs appropriately (for example, rubrics award less than full credit for the presence of nonsense statements such as $1 + 4 = 5 + 7 = 12$, even if the final answer is correct), or identify or describe errors in solutions to multi-step problems and present corrected solutions. Content Scope: Knowledge and skills articulated in 8.EE.8c. | - | MP.1 MP.2 MP.3 MP.6 MP.7 | Yes |

Grade 8 Evidence Statements

Type I
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|-----------|------------------------|---|---|----------------------|------------|
| C | 8.C.5.1 | Apply geometric reasoning in a coordinate setting, and/or use coordinates to draw geometric conclusions. Content Scope: Knowledge and skills articulated in 8.EE.6. | - | MP.2 MP.3 MP.5 | Yes |
| C | 8.C.5.2 | Apply geometric reasoning in a coordinate setting, and/or use coordinates to draw geometric conclusions. Content Scope: Knowledge and skills articulated in 8.G.2, 8.G.4. | - | MP.2 MP.3 MP.5 | Yes |
| C | 8.C.5.3 | Apply geometric reasoning in a coordinate setting, and/or use coordinates to draw geometric conclusions. Content Scope: Knowledge and skills articulated in 8.G.B. | i) Some of the tasks require students to use the converse of the Pythagorean Theorem. | MP.2 MP.3 MP.5 | Yes |
| C | 8.C.6 | Construct, autonomously, chains of reasoning that will justify or refute propositions or conjectures. Content Scope: Knowledge and skills articulated in 7.RP.A, 7.NS.A, 7.EE.A. | i) Some of the tasks may use scaffolding ¹ . | MP.3 MP.6 | Yes |

| Sub-Claim | Evidence Statement Key | Evidence Statement Text | Clarifications, limits, emphases, and other information intended to ensure appropriate variety in tasks | Relationship to MPs | Calculator |
|--------------------------------------|------------------------|---|---|--------------------------------------|------------|
| Sub-claim D (12 of 52 points) | | | | | |
| D | 8.D.1 | Solve multi-step contextual word problems with degree of difficulty appropriate to Grade 8, requiring application of knowledge and skills articulated in Type I, Sub-Claim A Evidence Statements. | i) Some of the tasks may use scaffolding ¹ . | MP.1 MP.2 MP.4 MP.5 MP.7 | Yes |
| D | 8.D.2 | Solve multi-step contextual problems with degree of difficulty appropriate to grade 8, requiring application of knowledge and skills articulated in 7.RP.A, 7.NS.3, 7.EE, 7.G, and 7.SP.B. | i) Some of the tasks may use scaffolding ¹ . | MP.1 MP.2 MP.4 MP.5 MP.7 | Yes |
| D | 8.D.3 | Micro-models: Autonomously apply a technique from pure mathematics to a real-world situation in which the technique yields valuable results even though it is obviously not applicable in a strict mathematical sense (e.g., profitably applying proportional relationships to a phenomenon that is obviously nonlinear or statistical in nature). Content Scope: Knowledge and skills articulated in Type I, Sub-Claim A Evidence Statements. | i) Some of the tasks may use scaffolding ¹ . | MP.1 MP.2 MP.4 MP.5 MP.7 | Yes |
| D | 8.D.4 | Reasoned estimates: Use reasonable estimates of known quantities in a chain of reasoning that yields an estimate of an unknown quantity. Content Scope: Knowledge and skills articulated in Type I, Sub-Claim A Evidence Statements | i) Some of the tasks may use scaffolding ¹ . | MP.1 MP.2 MP.4 MP.5 MP.7 | Yes |

¹ Scaffolding in a task provides the student with an entry point into a pathway for solving a problem. In unscaffolded tasks, the student determines his/her own pathway and process. Both scaffolded and unscaffolded tasks will be included in reasoning and modeling items.

² “Thin context” is a sentence or phrase that establishes a concrete referent for the quantity/quantities in the problem, in such a way as to provide meaningful avenues for mathematical intuition to operate, yet without requiring any sort of further analysis of the context. For example, a task could provide a reason for the use of scientific notation such as, “The number represents the distance between two planets.”