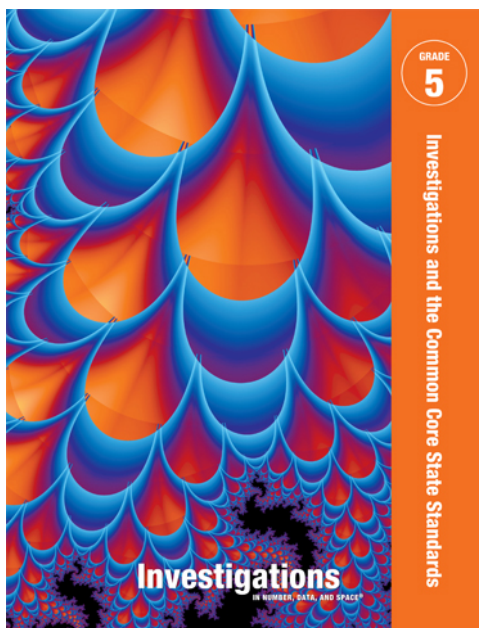


A Correlation of

Investigations in Number, Data, and Space for the Common Core

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to the

Common Core State Standards with California Additions Standards Map Grade 5 – Mathematics

Publisher: Pearson
 Program Title: Investigations in Number, Data, and Space for the Common Core
 Components: Grade 5 Investigations Curriculum Units
 U1 Number Puzzles and Multiple Towers U6 Decimals on Grids and Number Lines
 U2 Prisms and Pyramids U7 How Many People? How Many Teams?
 U3 Thousands of Miles, Thousands of Seats U8 Growth Patterns
 U4 What's That Portion? U9 How Long Can You Stand on One Foot?
 U5 Measuring Polygons

Common Core State Standards with California Additions¹ Standards Map for a Basic Grade-Level Program

Grade Five – Mathematics

Standard No.	Standard Language	Publisher Citations		Meets Standard		For Reviewer Use Only
		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
	OPERATIONS AND ALGEBRAIC THINKING					
	Write and interpret numerical expressions.					
5.OA 1.	Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	U1 Session 2.4A	U1 Sessions 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.5			
5.OA 2.	Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. <i>For example, express the calculation “add 8 and 7, then multiply by 2” as $2 \times (8 + 7)$. Recognize that $3 \times (18932 + 921)$ is three times as large as $18932 + 921$, without having to calculate the indicated sum or product.</i>	U8 Sessions 2.1, 2.2, 2.3, 2.4	U8 Algebra Connections in This Unit (p. 19); Teacher Notes (pp. 119, 120, 124, 130, 132)			

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.

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5.OA 2.1	<u>Express a whole number in the range 2-50 as a product of its prime factors. For example, find the prime factors of 24 and express 24 as 2x2x2x3.</u>	U1 Sessions 1.6, 1.7	U1 Session 1.5			
	Analyze patterns and relationships.					
5.OA 3.	Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. <i>For example, given the rule “Add 3” and the starting number 0, and given the rule “Add 6” and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so.</i>	U8 Sessions 1.1, 1.2, 1.3, 1.5, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7	U8 Sessions 1.4, 2.8			

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	NUMBER AND OPERATIONS IN BASE TEN					
	Understand the place value system.					
5.NBT 1.	Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	U3 Sessions 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 2.4 U6 Sessions 1.1, 1.2, 1.3, 1.4, 2.4, 2.5, 2.6, 2.7	U3 Mathematics in This Unit (pp. 10-11); Teacher Notes (pp. 113-115) U6 Mathematics in This Unit (pp. 11-12); Teacher Notes (pp. 132-133); Dialogue Boxes (pp. 143-146)			
5.NBT 2.	Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.	U1 Sessions 2.3, 2.4, 2.5, 2.6 U6 Session 3A.1	U1 Session 2.7; Mathematics in This Unit (pp. 12-13)			

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5.NBT 3a.	Read, write, and compare decimals to thousandths. Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392 = 3 \times 100 + 4 \times 10 + 7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000)$.	U6 Sessions 1.1, 1.2, 1.3, 1.4, 1.6, 1.7, 1.8, 1.9	U6 Sessions 1.5, 1.10			
5.NBT 3b.	Read, write, and compare decimals to thousandths. Compare two decimals to thousandths based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.	U6 Sessions 1.1, 1.2, 1.3, 1.4, 1.6, 1.7, 1.8, 1.9	U6 Sessions 1.5, 1.10			
5.NBT 4.	Use place value understanding to round decimals to any place.	U6 Sessions 1.5A, 2.3, 2.6	U6 Teacher Note (page 133); Dialogue Box (page 143)			
	Perform operations with multi-digit whole numbers and with decimals to hundredths.					
5.NBT 5.	Fluently multiply multi-digit whole numbers using the standard algorithm.	U1 Sessions 2.1, 2.2, 2.3, 2.4, 2.5, 2.6 U7 Sessions 2.1, 2.2, 2.3	U1 Session 2.7; Mathematics in This Unit (pp. 11-12) U7 Session 2.4			

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5.NBT 6.	Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	U1 Sessions 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7 U7 Sessions 3.1, 3.2, 3.3, 3.4, 3.5, 3.6	U1 Session 3.8 U7 Session 3.7			
5.NBT 7.	Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	U6 Sessions 2.1, 2.2, 2.3, 2.4, 2.5A, 2.5, 2.6, 2.7, 3A.1, 3A.2, 3A.3, 3A.4, 3A.5, 3A.6	U6 Sessions 2.8, 3A.7; Mathematics in This Unit (p. 12); Teacher Note (pp. 132-133); Dialogue Box (pp. 143-144)			

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	NUMBER AND OPERATIONS – FRACTIONS					
	Use equivalent fractions as a strategy to add and subtract fractions.					
5.NF 1.	Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. <i>For example, $\frac{2}{3} + \frac{5}{4} = \frac{8}{12} + \frac{15}{12} = \frac{23}{12}$. (In general, $\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$.)</i>	U4 Sessions 3.1, 3.2, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9	U4 Sessions 3.3, 3.10			
5.NF 2.	Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers. <i>For example, recognize an incorrect result $\frac{2}{5} + \frac{1}{2} = \frac{3}{7}$, by observing that $\frac{3}{7} < \frac{1}{2}$.</i>	U4 Sessions 3.1, 3.2, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9	U4 Sessions 3.3, 3.10			

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	Apply and extend previous understandings of multiplication and division to multiply and divide fractions.					
5.NF.3.	Interpret a fraction as division of the numerator by the denominator ($a/b = a \div b$). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem. <i>For example, interpret $3/4$ as the result of dividing 3 by 4, noting that $3/4$ multiplied by 4 equals 3, and that when 3 wholes are shared equally among 4 people each person has a share of size $3/4$. If 9 people want to share a 50-pound sack of rice equally by weight, how many pounds of rice should each person get? Between what two whole numbers does your answer lie?</i>	U6 Sessions 1.7, 1.8, 1.9				

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5.NF 4a.	Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction. Interpret the product $(a/b) \times q$ as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$. For example, use a visual fraction model to show $(2/3) \times 4 = 8/3$, and create a story context for this equation. Do the same with $(2/3) \times (4/5) = 8/15$. (In general, $(a/b) \times (c/d) = ac/bd$.)	U4 Sessions 4A.1, 4A.2, 4A.3, 4A.4, 4A.5, 4A.6	U4 Session 4A.7			
5.NF 4b.	Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction. Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.	U4 Sessions 4A.3, 4A.4, 4A.5, 4A.6	U4 Session 4A.7			
5.NF 5a.	Interpret multiplication as scaling (resizing), by: Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.	U4 Sessions 4A.2, 4A.6	U4 Session 4A.7			

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5.NF 5b.	Interpret multiplication as scaling (resizing), by: Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence $a/b = (n \times a)/(n \times b)$ to the effect of multiplying a/b by 1.	U4 Sessions 4A.1, 4A.2, 4A.3	U4 Session 4A.7			
5.NF 6.	Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	U4 Sessions 4A.2, 4A.3 U9 Session 1.5A	U4 Session 4A.7 U9 Session 1.6A			

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5.NF 7a.	Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions. ² Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. <i>For example, create a story context for $(1/3) \div 4$, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that $(1/3) \div 4 = 1/12$ because $(1/12) \times 4 = 1/3$.</i>	U4 Session 4A.8	U4 Session 4A.10			
5.NF 7b.	Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions. ² Interpret division of a whole number by a unit fraction, and compute such quotients. <i>For example, create a story context for $4 \div (1/5)$, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that $4 \div (1/5) = 20$ because $20 \times (1/5) = 4$.</i>	U4 Session 4A.9	U4 Session 4A.10			

² Students able to multiply fractions in general can develop strategies to divide fractions in general, by reasoning about the relationship between multiplication and division. But division of a fraction by a fraction is not a requirement at this grade.

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5.NF 7c.	Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions. ² Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. <i>For example, how much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 1/3-cup servings are in 2 cups of raisins?</i>	U4 Sessions 4A.8, 4A.9	U4 Session 4A.10			
	MEASUREMENT AND DATA					
	Convert like measurement units within a given measurement system.					
5.MD 1.	Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.	U6 Sessions 3A.8, 3A.9 U8 Session 1.1				

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	Represent and interpret data.					
5.MD 2.	Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Use operations on fractions for this grade to solve problems involving information presented in line plots. <i>For example, given different measurements of liquid in identical beakers, find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally.</i>	U9 Sessions 1.1, 1.2, 1.3, 1.4, 1.5A	U9 Session 1.6A			
	Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.					
5.MD 3a.	Recognize volume as an attribute of solid figures and understand concepts of volume measurement. A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume, and can be used to measure volume.	U2 Sessions 1.1, 1.2, 1.3, 1.4, 1.5A, 1.6, 1.7, 2.1, 2.2, 2.3, 2.4A, 3.1, 3.2, 3.3, 3.4	U2 Sessions 1.5, 2.4, 3.5			

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5.MD 3b.	Recognize volume as an attribute of solid figures and understand concepts of volume measurement. A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units.	U2 Sessions 1.1, 1.2, 1.3, 1.4, 1.5A, 1.6, 1.7, 2.1, 2.2, 2.3, 2.4A, 3.1, 3.2, 3.3, 3.4	U2 Sessions 1.5, 2.4, 3.5			
5.MD 4.	Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.	U2 Sessions 1.1, 1.2, 1.3, 1.4, 1.5A, 1.6, 1.7, 2.1, 2.2, 2.3, 2.4A, 3.1, 3.2, 3.3, 3.4	U2 Sessions 1.5, 2.4, 3.5			
5.MD 5a.	Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume. Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication.	U2 Sessions 1.1, 1.2, 1.3, 1.4, 1.5A, 1.6, 1.7, 2.1, 2.2, 2.3, 2.4A, 3.1, 3.2, 3.3, 3.4	U2 Sessions 1.5, 2.4, 3.5			

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5.MD 5b.	Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume. Apply the formulas $V = l \times w \times h$ and $V = b \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real world and mathematical problems.	U2 Sessions 1.1, 1.5A, 2.1, 2.3, 2.4A	U2 Sessions 1.5, 2.4			
5.MD 5c.	Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume. Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real world problems.	U2 Session 1.5A				

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	GEOMETRY					
	Graph points on the coordinate plane to solve real-world and mathematical problems.					
5.G 1.	Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x -axis and x -coordinate, y -axis and y -coordinate).	U8 Sessions 1.1, 1.2, 1.3, 1.5, 2.1, 2.3, 2.4, 2.5, 2.6, 2.7	U8 Sessions 1.4, 2.8			
5.G 2.	Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	U8 Sessions 1.1, 1.2, 1.3, 1.5, 2.3, 2.4, 2.5, 2.6, 2.7	U8 Sessions 1.4, 2.8			

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	Classify two-dimensional figures into categories based on their properties.					
5.G 3.	Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. <i>For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles.</i>	U5 Sessions 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7	U5 Session 1.7			
5.G 4.	Classify two-dimensional figures in a hierarchy based on properties.	U5 Sessions 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7	U5 Session 1.7			

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	MATHEMATICAL PRACTICES					
MP 1.	Make sense of problems and persevere in solving them.	U2 Sessions 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7 U3 Sessions 3.2, 3.3, 3.4 U4 Sessions 2.4, 2.5 U7 Sessions 4.1, 4.2, 4.3, 4.4 U8 Sessions 2.1, 2.2, 2.3, 2.4	U1 Sessions 1.3, 1.4, 1.5, 1.6 U2 Sessions 2.4A U6 Sessions 2.5A			
MP 2.	Reason abstractly and quantitatively.	U4 Sessions 3.4, 3.5, 3.6, 3.7, 3.8, 3.9 U6 Sessions 1.4, 1.5, 1.6, 1.7, 1.8, 1.9 U8 Sessions 2.1, 2.2, 2.3	U1 Sessions 2.2, 2.4A, 3.1, 3.3, 3.6, 3.7 U4 Sessions 1.1, 4A.1, 4A.9 U6 Session 3A.2			

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Components: Grade 5 Investigations Curriculum Units

U1 Number Puzzles and Multiple Towers

U2 Prisms and Pyramids

U3 Thousands of Miles, Thousands of Seats

U4 What's That Portion?

U5 Measuring Polygons

U6 Decimals on Grids and Number Lines

U7 How Many People? How Many Teams?

U8 Growth Patterns

U9 How Long Can You Stand on One Foot?

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		Primary Citations	Supporting Citations	Y	N	Reviewer Notes
MP 3.	Construct viable arguments and critique the reasoning of others.	U1 Session 2.6 U3 Sessions 2.1, 2.2, 2.3 U5 Sessions 1.6, 1.7 U7 Sessions 1.3, 3.3, 3.4, 3.5, 3.6 U9 Sessions 1.1, 1.2, 1.3, 1.4	U1 Session 2.3 U4 Session 2.3 U5 Sessions 2.1, 2.2, 2.3, 2.4 U6 Session 2.2			
MP 4.	Model with mathematics.	U2 Sessions 1.4, 1.5 U3 Sessions 3.2, 3.3, 3.4 U5 Sessions 2.5, 2.6 U8 Sessions 1.1, 1.2, 1.3, 1.4, 1.5	U2 Session 1.5A U4 Sessions 3.2, 3.3, 4A.1, 4A.2, 4A.4, 4A.6, 4A.8 U6 Session 1.1, 1.2, 1.3, 1.5A, 2.1			

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MP 5.	Use appropriate tools strategically.	U2 Sessions 2.1, 2.2, 2.3 U3 Sessions 1.3, 1.4, 1.5 U5 Sessions 1.2, 1.3, 1.4, 1.5, 1.6, 1.7 U6 Sessions 1.7, 1.8, 1.9, 1.10 U7 Sessions 3.1	U2 Session 2.4A			
MP 6.	Attend to precision.	U1 Sessions 2.1, 2.6 U5 Sessions 1.1, 1.2, 1.3, 1.4 U6 Sessions 2.3, 2.4, 2.5, 2.6 U7 Sessions 3.1, 3.2, 3.3, 3.4, 3.5, 3.6 U9 Sessions 1.1, 1.2, 1.3, 1.4	U1 Sessions 1.2, 3.4 U6 Sessions 2.7, 3A.3, 3A.4, 3A.6, 3A.7			

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MP 7.	Look for and make use of structure.	U1 Sessions 2.4, 2.5, 3.5 U3 Sessions 1.1, 1.2 U4 Sessions 1.2, 1.3, 1.4, 1.5 U8 Sessions 1.3, 1.4, 1.5, 2.1, 2.2, 2.3, 2.4 U9 Sessions 1.2, 1.3, 1.4	U1 Sessions 1.1, 3.2 U4 Sessions 2.1, 2.2, 4A.4, 4A.5 U6 Sessions 3A.1, 3A.5, 3A.8, 3A.9 U8 Sessions 2.5, 2.6, 2.7 U9 Sessions 1.1, 1.5A			
MP 8.	Look for and express regularity in repeated reasoning.	U2 Sessions 1.1, 1.2, 1.3 U3 Sessions 2.1, 2.2, 2.3 U6 Sessions 2.3, 2.4 U7 Sessions 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3	U1 Session 2.4A U3 Session 3.1 U4 Session 4A.5			
Appendix						

California Department of Education
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