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correlated to

**California Mathematics
Content Standards
Grades K-8**

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Summer Success Math © 2008
Kindergarten
correlated to
California Mathematics Content Standards
Kindergarten

N u m b e r S e n s e

Content Standard	Summer Success Math-Teacher Edition-Kdg
1.0 Students understand the relationship between numbers and quantities (i.e., that a set of objects has the same number of objects in different situations regardless of its position or arrangement):	
1.1 Compare two or more sets of objects (up to ten objects in each group) and identify which set is equal to, more than, or less than the other.	Pretest: 1 Week 1: 15, 23, 24-25 Week 2: 41-42, 44A, 45, 47-48 Week 3: 61-62, 67, 69-70 Week 4: 85-86, 89, 91-92 Week 5: 101, 111, 113 Week 6: 130A, 131, 132A Posttest: 145
1.2 Count, recognize, represent, name, and order a number of objects (up to 30).	Pretest: 1 Week 1: 6D, 7, 12A, 13, 14A, 15, 17-18, 19-20, 20A, 21, 22, 22A, 23, 24-25 Week 2: 28C, 29, 31, 34A, 35, 36A, 37, 41-42, 42A, 43, 44, 44A, 45, 47-48 Week 3: 50C, 51, 52, 56A, 57, 58B, 59, 61-62, 63-64, 64A, 65, 66A, 67, 69-70 Week 4: 72C, 73, 78A, 75-76, 79, 80A, 81, 87, 88A, 89, 91-92 Week 5: 94C, 95, 97-98, 101, 102A, 103, 105-106, 108A, 109, 110A, 111, 113 Week 6: 116C, 117, 119-120, 122A, 123, 124A, 125, 130A, 131, 132A, 133, 135-136 Posttest: 145
1.3 Know that the larger numbers describe sets with more objects in them than the smaller numbers have.	The opportunity to address this objective is available throughout the text.

Content Standard	<i>Summer Success Math-Teacher Edition-Kdg</i>
2.0 Students understand and describe simple additions and subtractions:	
2.1 Use concrete objects to determine the answers to addition and subtraction problems (for two numbers that are each less than 10).	Pretest: 2, 3 Week 1: 7, 12A, 14A, 15, 17-18, 20A, 21, 22A, 24 Week 2: 31, 34A, 35, 36A, 37, 39-40, 42A, 44A Week 3: 50C, 50D, 57, 58B, 59, 66A Week 4: 72C, 73, 74, 75-76, 78A, 79, 80, 80A, 81, 83-84, 86A, 87, 88A Week 5: 97-98, 100A, 108A, 109, 110A, 111, 113, 113 Week 6: 116C, 117, 122A, 123, 124A, 125, 130A, 131, 133, 134, 135-136 Posttest: 146
3.0 Students use estimation strategies in computation and problem solving that involve numbers that use ones and tens places:	
3.1 Recognize when an estimate is reasonable.	Week 4: 86A Week 5: 110A, 110A

Algebra and Functions

Content Standards	<i>Summer Success Math-Teacher Edition-Kdg</i>
1.0 Students sort and classify objects:	
1.1 Identify, sort, and classify objects by attribute and identify objects that do not belong to a particular group (e.g., all these balls are green, those are red).	Pretest: 3 Week 1: 6D, 7, 8, 15 Week 2: 28D, 35, 36A, 44B Week 3: 56A, 57, 64A, 65, 66A Week 4: 74, 78A, 79, 80A, 90 Week 5: 110 Week 6: 122A, 123, 129-130

Measurement and Geometry

Content Standard	<i>Summer Success Math-Teacher Edition-Kdg</i>
1.0 Students understand the concept of time and units to measure it; they understand that objects have properties, such as length, weight, and capacity, and that comparisons may be made by referring to those properties:	

Content Standard	<i>Summer Success Math-Teacher Edition-Kdg</i>
1.1 Compare the length, weight, and capacity of objects by making direct comparisons with reference objects (e.g., note which object is shorter, longer, taller, lighter, heavier, or holds more).	Pretest: 4 Week 1: 12B, 13, 20B Week 2: 36, 44B, 45 Week 3: 50D, 67 Week 4: 72D, 80B, 82, 88B Week 5: 96, 100B, 102B, 104, 110B Week 6: 116D, 122B, 124B, 130B, 132B Posttest: 148
1.2 Demonstrate an understanding of concepts of time (e.g., morning, afternoon, evening, today, yesterday, tomorrow, week, year) and tools that measure time (e.g., clock, calendar).	Week 1: 14B Week 2: 36B, 38, 42B Week 3: 64B Week 4: 86B Week 5: 94D, 96, 100B, 108B, 110B Week 6: 116D, 124, 132B
1.3 Name the days of the week.	Week 2: 36B, 38 Week 5: 94D, 96 Week 6: 132B
1.4 Identify the time (to the nearest hour) of everyday events (e.g., lunch time is 12 o'clock; bedtime is 8 o'clock at night).	Week 1: 14B Week 5: 100B
2.0 Students identify common objects in their environment and describe the geometric features:	
2.1 Identify and describe common geometric objects (e.g., circle, triangle, square, rectangle, cube, sphere, cone).	Pretest: 4 Week 1: 6E, 14B, 15, 20B, 22B Week 2: 28D, 34D, 34B, 35, 42B, 43 Week 3: 51, 53-54, 56B, 58B, 64B, 65, 66A Week 4: 72D, 78B, 80B, 83-84, 86B, 88B Week 5: 94C, 94D, 102B, 108B, 110B Week 6: 116d, 122B, 124B, 127-128, 129-130 Posttest: 148
2.2 Compare familiar plane and solid objects by common attributes (e.g., position, shape, size, roundness, number of corners).	Week 1: 14B, 20B, 22B Week 2: 34B, 36B, 42B, 44A Week 3: 50D, 53-54, 56B, 58B, 64B, 66A Week 4: 72D, 78B, 80B, 86B, 88B Week 5: 94C, 94D, 102B, 108B, 110B Week 6: 116D, 122B, 124B, 127-128, 129-130 Posttest: 147

Statistics, Data Analysis, and Probability

Content Standard	<i>Summer Success Math-Teacher Edition-Kdg</i>
1.0 Students collect information about objects and events in their environment:	
1.1 Pose information questions; collect data; and record the results using objects, pictures, and picture graphs.	Pretest: 5 Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 99-100 Week 6: 121-122 Posttest: 149
1.2 Identify, describe, and extend simple patterns (such as circles or triangles) by referring to their shapes, sizes, or colors.	Pretest: 5 Week 1: 12A, 14A, 20A, 21, 22A Week 2: 34A, 34B, 36A, 36B, 37, 42A, 42B, 44A Week 3: 50C, 57, 58A, 59, 66A Week 4: 80A, 83-84, 88A Week 5: 100A, 102, 107-108, 110A, 112 Week 6: 116C, 117, 122A, 124A, 132A, 133 Posttest: 150

Mathematical Reasoning

Content Standard	<i>Summer Success Math-Teacher Edition-Kdg</i>
1.0 Students make decisions about how to set up a problem:	
1.1 Determine the approach, materials, and strategies to be used.	Pretest: 6 Week 1: 6D, 9-10, 14, 14A, 16, 20A, 22 Week 2: 28C, 30, 36A, 38, 42A, 44, 44A, 46 Week 3: 50D, 56A, 58, 60, 64A, 66, 68 Week 4: 72C, 78A, 80, 82, 86A, 88, 90 Week 5: 94C, 96, 100A, 102, 104, 108A, 110, 110A, 112, 122, 124 Week 6: 116C, 118, 126, 130A, 132, 132A, 134 Posttest: 150

Content Standard	<i>Summer Success Math-Teacher Edition-Kdg</i>
1.2 Use tools, such as manipulatives or sketches, to model problems.	Pretest: 6 Week 1: 9-10, 14, 14A, 16, 20A, 22 Week 2: 28C, 30, 36A, 38, 42A, 44A, 46 Week 3: 50D, 56A, 58, 60, 64A, 66, 68 Week 4: 72C, 78A, 80, 82, 86A, 88, 90 Week 5: 94C, 96, 100A, 102, 104, 108A, 110, 110A, 112 Week 6: 116C, 118, 122A, 124, 130A, 132, 132A, 134 Posttest: 150
2.0 Students solve problems in reasonable ways and justify their reasoning:	
2.1 Explain the reasoning used with concrete objects and/or pictorial representations.	Pretest: 6 Week 1: 9-10, 14, 14A, 16, 20A, 20A, 22 Week 2: 28C, 30, 36A, 38, 42A, 44, 44A, 46 Week 3: 50D, 56A, 58, 64A, 66, 68 Week 4: 72C, 78A, 86A, 88, 90 Week 5: 94C, 96, 100A, 102, 104, 108A, 110, 110A, 112 Week 6: 116C, 118, 122A, 124, 126, 130A, 132, 132A, 134 Posttest: 150
2.2 Make precise calculations and check the validity of the results from the context of the problem.	Pretest: 6 Week 1: 9-10, 14A, 20A, 22 Week 2: 28C, 36A, 38, 42A, 44, 44A, 46 Week 3: 50D, 56A, 58, 64A, 66, 68 Week 4: 72C, 78A, 86A, 88, 90 Week 5: 94C, 96, 100A, 102, 108A, 110, 110A, 112 Week 6: 116C, 118, 122A, 124, 126, 130A, 132, 132A, 134 Posttest: 150



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Grade 1
correlated to
California Mathematics Content Standards
Grade 1

N u m b e r S e n s e

Content Standard	Summer Success Math-Teacher Edition Grade 1
1.0 Students understand and use numbers up to 100:	
1.1 Count, read, and write whole numbers to 100.	Pretest 1 Week 1: 6E, 9, 12A, 12, 14A, 15, 17-18, 20A, 21 Week 2: 28C, 29, 37, 41, 43 Week 3: 56A, 64A, 66A Week 4: 72C, 75, 78A, 81, 86A, 88A, 91-92 Week 5: 100A, 108A, 113-114 Week 6: 116C, 122A, 124A Posttest 145
1.2 Compare and order whole numbers to 100 by using the symbols for less than, equal to, or greater than (<, =, >).	Pretest: 1, 3 Week 2: 34A, 42A Week 6: 132A Posttest 145, 147
1.3 Represent equivalent forms of the same number through the use of physical models, diagrams, and number expressions (to 20) (e.g., 8 may be represented as 4+4, 5+3, 2+2+2+2, 10-2, 11-3).	Pretest: 1 Week 1: 6E, 12A, 13, 14A, 15, 17-18, 20A, 21, 22A Week 2: 28C, 29, 36A, 37, 41, 49-50 Week 3: 50C, 51, 56A, 58, 64A, 66A Week 4: 72C, 73, 78A, 80A, 81, 86A, 88A Week 5: 94C, 100A, 108A, 110A Week 6: 116C, 122A, 124A Posttest: 145

Content Standard	<i>Summer Success Math-Teacher Edition Grade 1</i>
1.4 Count and group object in ones and tens (e.g., three groups of 10 and 4 equals 34, or 30+4).	Pretest: 1 Week 1: 17-18 Week 3: 57, 58A, 59, 64A, 66A Week 4: 75-76, 78A, 80A, 88A, 89 Week 5: 94C, 95, 102A, 103, 110A, 111 Week 6: 116C, 117, 122A Posttest: 145
1.5 Identify and know the value of coins and show different combinations of coins that equal the same value.	Pretest: 4 Week 1: 6E, 7, 22B Week 2: 28D, 29, 42B, 44B Week 3: 56B, 60, 65, 67-68 Week 4: 80B, 88B, 89 Week 5: 101 Week 6: 119-120 Posttest: 148
2.0 Students demonstrate the meaning of addition and subtraction and use these operations to solve problems:	
2.1 Know the addition facts (sums to 20) and the corresponding subtraction facts and commit them to memory.	Pretest: 2 Week 2: 31-32, 41-42 Week 3: 61-62, 63-64, 64A Week 4: 83-84, 85-86, 86A Week 5: 107-108 Posttest: 146
2.2 Use the inverse relationship between addition and subtraction to solve problems.	Week 1: 9 Week 2: 34A, 42B Week 5: 94C, 100A, 102A
2.3 Identify one more than, one less than, ten more than, ten less than a given number.	Pretest: 2 Week 1: 6D, 7, 23 Week 2: 44A, 45 Week 3: 57 Week 4: 75, 78A, 79 Week 5: 100A, 101, 102A, 103, 110A, 111 Week 6: 117, 123, 122A, 124A, 125, 130A, 131 Posttest: 146
2.4 Count by 2's, 5's, 10's to 100.	Pretest: 2, 3 Week 2: 28C, 31-32 Week 3: 56A, 57, 59 Week 4: 89 Week 5: 108A, 110A Week 6: 124A, 130A Posttest: 146, 147

Content Standard	<i>Summer Success Math-Teacher Edition Grade 1</i>
2.5 Show the meaning of addition (putting together, increasing) and subtraction (taking away, comparing, finding the difference).	Pretest: 2 Week 1: 14A, 15 Week 2: 45 Week 3: 51, 56A, 58A, 59 Week 4: 72C, 91-92 Week 5: 113-114 Week 6: 135-136 Posttest: 146
2.6 Solve addition and subtraction problems with one- and two-digit numbers (e.g., $5+58=\underline{\quad}$).	Pretest: 2 Week 5: 96, 101, 110 Week 6: 123, 124, 125, 131, 133 Posttest: 146
2.7 Find the sum of three one-digit numbers.	Pretest: 2, 3 Week 1: 20A, 21 Week 2: 39-40 Week 4: 80A Week 5: 109 Week 6: 136 Posttest: 146, 147
3.0 Students use estimation strategies in computation and problem solving that involve numbers that use ones, tens and hundreds places:	
3.1 Make reasonable estimates when comparing larger or smaller numbers.	Week 5: 102A Week 6: 122A

Algebra and Functions

Content Standards	<i>Summer Success Math-Teacher Edition Grade 1</i>
1.0 Students use number sentences with operational symbols and expressions to solve problems:	
1.1 Write and solve number sentences from problem situations that express relationships involving addition and subtraction.	Pretest: 3 Week 1: 22A Week 2: 44A Week 3: 66A Week 4: 88A Week 5: 110 Posttest: 147

Content Standards	<i>Summer Success Math-Teacher Edition Grade 1</i>
1.2 Understand the meaning of the symbols +, -, =.	Week 1: 6D, 7, 14A Week 2: 36B Week 3: 50C, 56A, 57, 58A Week 5: 109 Week 6: 133

Measurement and Geometry

Content Standard	<i>Summer Success Math-Teacher Edition Grade 1</i>
1.0 Students use direct comparison and nonstandard units to describe the measurements of objects:	
1.1 Compare the length, weight, and volume of two or more objects by using direct comparison or a nonstandard unit.	Week 1: 25-26 Week 2: 35 Week 5: 99-100, 100B, 110B Week 6: 132B
1.2 Tell time to the nearest half hour and relate time to events (e.g., before/after, shorter/longer).	Pretest: 4 Week 1: 12, 20B, 21 Week 2: 37 Week 3: 50D, 51, 58B Week 5: 94D Week 6: 124B Posttest: 148
2.0 Students identify common geometric figures, classify them by common attributes, and describe their relative position or their location in space:	
2.1 Identify, describe, and compare triangles, rectangles, squares, and circles, including the faces of three-dimensional objects.	Pretest: 4 Week 1: 14B, 15, 20B, 21, 22B Week 2: 28D, 34B, 42B, 44B, 45 Week 3: 50D, 65 Week 4: 88B Week 6: 122B Posttest: 148
2.2 Classify familiar plane and solid objects by common attributes, such as color, position, shape, size, roundness, or number of corners, and explain which attributes are being used for classification	Week 1: 14B, 15, 20B, 21, 22B Week 2: 28D, 34B, 42B, 44B, 45 Week 3: 50D, 65, 69-70 Week 4: 78B, 80B, 88B Week 5: 94B, 94D, 100B, 101, 102B, 108B, 110B Week 6: 122B, 124B
2.3 Give and follow directions about location.	Week 6: 129-130

Content Standard	<i>Summer Success Math-Teacher Edition Grade 1</i>
2.4 Arrange and describe objects in space by proximity, position, and direction (e.g., near, far, below, above, up, down, behind, in front of, next to, left or right of).	Week 6: 129-130

Statistics, Data Analysis, and Probability

Content Standard	<i>Summer Success Math-Teacher Edition Grade 1</i>
1.0 Students organize, represent, and compare data by category on simple graphs and charts:	
1.1 Sort objects and data by common attributes and describe the categories.	Pretest: 5 Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 99-100 Week 6: 121-122 Posttest: 149
1.2 Represent and compare data (e.g., largest, smallest, most often, least often) by using pictures, bar graphs, tally charts, and picture graphs.	Pretest: 5 Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 99-100 Week 6: 121-122 Posttest: 149
2.0 Students sort objects and create and describe patterns by number, shapes, sizes, rhythms, or colors:	
2.1 Describe, extend, and explain ways to get to a next element in simple repeating patterns (rhythmic, numeric, color, and shape).	Pretest: 3 Week 1: 6D, 12A, 13, 14A, 19-20, 22A, 23, 27, 28 Week 2: 28C, 42A, 43, 44A Week 3: 50D, 56B, 58A, 59, 64A, 64B, 66A, 67 Week 4: 72C, 88A Week 5: 110A, 111 Week 6: 124A Posttest: 147

Mathematical Reasoning

Content Standard	<i>Summer Success Math-Teacher Edition Grade 1</i>
1.0 Students make decisions about how to set up a problem:	
1.1 Determine the approach, materials, and strategies to be used.	The opportunity to address this objective is available on the following pages: Week 1: 6D, 8, 12A, 14, 16, 20A, 20B, 24 Week 2: 30, 34A, 36, 36A, 38, 42A, 44, 44A, 46 Week 3: 50C, 52, 56A, 58, 58A, 60, 64A, 64B, 66, 66A, 68 Week 4: 74, 80, 82, 86A, 88, 88B, 90 Week 5: 94C, 96, 100A, 102, 108A, 110, 110A, 112 Week 6: 118, 122B, 124, 124A, 126, 130A, 132, 132A, 134
1.2 Use tools, such as manipulatives or sketches, to model problems.	Pretest: 6 Week 1: 6D, 8, 12A, 14, 20A, 20B Week 2: 29-30, 34A, 36, 36A, 42A, 44, 44A Week 3: 50C, 52, 56A, 58A, 64A, 66A Week 4: 80, 80A, 82, 86A, 88B, 90 Week 5: 94C, 96, 100A, 102, 108A, 110A Week 6: 122B, 124, 124A, 126, 130A, 132A Posttest: 150
2.0 Students solve problems and justify their reasoning:	
2.1 Explain the reasoning used and justify the procedures selected.	The opportunity to address this objective is available on the following pages: Week 1: 6D, 8, 12A, 14, 20A, 20B Week 2: 29-30, 34A, 36, 36A, 42A, 44, 44A Week 3: 50C, 52, 56A, 58A, 64A, 66A Week 4: 80, 80A, 82, 86A, 88B, 90 Week 5: 94C, 96, 100A, 102, 108A, 110A Week 6: 122B, 124, 124A, 126, 130A, 132A
2.2 Make precise calculations and check the validity of the results from the context of the problem.	Pretest: 6 Week 1: 8, 14, 16, 22, 24 Week 2: 30, 36, 38, 44, 46 Week 3: 52, 58, 60, 66, 68 Week 4: 74, 80, 82, 88, 90 Week 5: 96, 102, 104, 110, 112 Week 6: 118, 124, 126, 132, 134 Posttest: 150



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Grade 2
correlated to
California Mathematics Content Standards
Grade 2

N u m b e r S e n s e

Content Standard	Summer Success Math-Teacher Edition Grade 2
1.0 Students understand the relationship between numbers, quantities, and place value in whole numbers up to 1000:	
1.1 Count, read, and write whole numbers to 1,000 and identify the place value for each digit.	Pretest: 1 Week 1: 6D, 7, 12A, 12B, 14A, 14B, 15, 20A, 22A Week 2: 28C, 31-32, 36A, 44A Week 3: 57, 63-64, 64A, 66A, 71-72 Week 4: 78A, 83-84, 86A, 88A Week 6: 117, 125, 132A, 133 Posttest: 145
1.2 Use words, models, and expanded forms (e.g., $45 = 4 \text{ tens} + 5$) to represent numbers (to 1,000).	Week 1: 23 Week 2: 37 Week 3: 58A, 59 Week 4: 72C, 88A Week 6: 116C, 117
1.3 Order and compare whole numbers to 1,000 by using symbols $<$, $=$, $>$.	Pretest: 1, 3 Week 2: 28D, 31-32, 34A, 36A, 42A Week 3: 50C, 51, 67 Week 4: 75-76, 80A, 86A, 87 Week 5: 94C, 95, 102A, 103, 110A Week 6: 127-128, 133 Posttest: 145, 147
2.0 Students estimate, calculate, and solve problems involving addition and subtraction of two- and three-digit numbers:	

Content Standard	<i>Summer Success Math-Teacher Edition Grade 2</i>
2.1 Understand and use the inverse relationship between addition and subtraction (e.g., an opposite number sentence for $8 + 6 = 14$ is $14 - 6 = 8$) to solve problems and check solutions.	Week 1: 6D Week 2: 36A, 42B Week 3: 50C, 51, 58A, 66A Week 4: 86A, 87
2.2 Find the sum or difference of two whole numbers up to three digits long.	Pretest: 2 Week 1: 15 Week 2: 34D, 35, 37, 39, 44A, 48 Week 3: 50C, 51, 57, 61, 64A, 65, 66A, 67, 69 Week 4: 73, 79, 80A, 81, 85, 89 Week 5: 93, 95, 97, 111, 113 Week 6: 119-120, 125, 131, 136 Posttest: 145, 146, 147
2.3 Use mental arithmetic to find the sum or difference of two-digit numbers.	Pretest: 2 Week 2: 35, 37 Week 3: 51, 56A, 57 Week 4: 73, 80A Week 5: 94C Week 6: 117, 123, 131 Posttest: 146
3.0 Students model and solve simple problems involving multiplication and division:	
3.1 Use repeated addition, arrays, and counting by multiples to do multiplication.	Week 1: 14A, 20A Week 2: 44, 44A Week 3: 58A, 59 Week 4: 88A, 89 Week 5: 100A, 102A, 108A, 109 Week 6: 122A, 122B, 123, 132B
3.2 Use repeated subtraction, equal sharing, and forming equal groups with remainders to do division.	Week 5: 100A, 114 Week 6: 130A, 131
3.3 Know the multiplication tables of 2s, 5s, and 10s (to “times 10”) and commit them to memory.	The opportunity to address this objective is available on the following pages: Week 1: 13 Week 2: 29 Week 4: 80A
4.0 Students understand that fractions and decimals may refer to parts of a set and parts of a whole:	
4.1 Recognize, name, and compare unit fractions from $\frac{1}{12}$ to $\frac{1}{2}$.	Pretest: 1 Week 5: 108A, 109, 114 Week 6: 122A, 129-130, 130A, 135 Posttest: 145

Content Standard	<i>Summer Success Math-Teacher Edition Grade 2</i>
4.2 Recognize fractions of a whole and parts of a group (e.g., one-fourth of a pie, two-thirds of 15 balls).	Week 5: 108A, 109, 114 Week 6: 129-130, 130A
4.3 Know that when all fractional parts are included, such as four-fourths, the result is equal to the whole and to one.	The opportunity to address this objective is available on the following pages: Week 6: 129-130
5.0 Students model and solve problems by representing, adding, and subtracting amounts of money:	
5.1 Solve problems using combinations of coins and bills.	Pretest: 4 Week 1: 16 Week 2: 34A, 35, 38 Week 3: 58B, 59, 66B Week 4: 80, 88, 91 Week 5: 95, 96, 100B, 105-106 Week 6: 124B, 126, 132B Posttest: 148
5.2 Know and use the decimal notation and the dollar and cent symbols for money.	The opportunity to address this objective is available on the following pages: Week 1: 14B, 16, 20B, 21 Week 2: 37 Week 3: 59, 65, 66B Week 5: 91, 105-106, 111 Week 6: 132B
6.0 Students use estimation strategies in computation and problem solving that involve numbers that use the ones, tens, hundreds, and thousands places:	
6.1 Recognize when an estimate is reasonable in measurements (e.g., closest inch).	Week 1: 12B, 13, 22A, 22B Week 2: 34B, 42B Week 3: 56B, 64B Week 4: 72D, 73

Algebra and Functions

Content Standards	<i>Summer Success Math-Teacher Edition Grade 2</i>
1.0 Students model, represent, and interpret number relationships to create and solve problems involving addition and subtraction:	

Content Standards	<i>Summer Success Math-Teacher Edition Grade 2</i>
1.1 Use the commutative and associative rules to simplify mental calculations and to check results.	The opportunity to address this objective is available on the following pages: Week 6: 132A
1.2 Relate problem situations to number sentences involving addition and subtraction.	Week 1: 6D, 12A, 14A, 20A Week 2: 28C, 34A, 36A Week 3: 50C, 52, 56A, 58A, 67 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 88, 88A Week 5: 94C, 96, 100A, 102A, 110A Week 6: 1116C, 122A, 124A, 130A
1.3 Solve addition and subtraction problems by using data from simple charts, picture graphs, and number sentences.	Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 99-100 Week 6: 121-122

M e a s u r e m e n t a n d G e o m e t r y

Content Standard	<i>Summer Success Math-Teacher Edition Grade 2</i>
1.0 Students understand that measurement is accomplished by identifying a unit of measure, iterating (repeating) that unit, and comparing it to the item to be measured:	
1.1 Measure the length of objects by iterating (repeating) a nonstandard or standard unit.	Week 1: 12B, 13, 19-20, 22B Week 2: 42B, 43 Week 3: 56B, 64B Week 5: 100B Week 6: 130B
1.2 Use different units to measure the same object and predict whether the measure will be greater or smaller when a different unit is used.	The opportunity to address this objective is available on the following pages: Week 3: 64B Week 5: 100B Week 6: 130B
1.3 Measure the length of an object to the nearest inch and/or centimeter.	Week 1: 12B, 13, 19-20, 22B Week 2: 42B, 43 Week 3: 56B, 64B Week 5: 100B Week 6: 130B

Content Standard	<i>Summer Success Math-Teacher Edition Grade 2</i>
1.4 Tell time to the nearest quarter hour and know relationships of time (e.g., minutes in an hour, days in a month, weeks in a year).	Pretest: 4 Week 1: 6E, 7 Week 4: 80B, 81, 90, 92 Week 5: 102B, 103, 110 Week 6: 117, 129-130 Posttest: 148
1.5 Determine the duration of intervals of time in hours (e.g., 11:00 a.m. to 4:00 p.m.)	Week 2: 45 Week 3: 50D Week 6: 122B
2.0 Students identify and describe the attributes of common figures in the plane and of common objects in space:	
2.1 Describe and classify plane and solid geometric shapes (e.g., circle, triangle, square, rectangle, sphere, pyramid, cube, rectangular prism) according to the number and shape of faces, edges, and vertices.	Pretest: 4 Week 1: 6E, 14B, 15, 20B, 21, 26 Week 2: 28D, 29, 34B Week 3: 56B, 65, 66B, 67 Week 4: 72D, 73, 75-76, 86B, 88B Week 5: 100B, 102B, 103, 111 Week 6: 124B, 130B

Statistics, Data Analysis, and Probability

Content Standard	<i>Summer Success Math-Teacher Edition Grade 2</i>
1.0 Students collect numerical data and record, organize, display, and interpret the data on bar graphs and other representations:	
1.1 Record numerical data in systematic ways, keeping track of what has been counted.	Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 99-100 Week 6: 121-122
1.2 Represent the same data set in more than one way (e.g., bar graphs and charts with tallies).	Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 99-100 Week 6: 121-122

Content Standard	<i>Summer Success Math-Teacher Edition Grade 2</i>
1.4 Ask and answer simple questions related to data representations.	Pretest: 5 Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 99-100 Week 6: 121-122 Posttest: 149
2.0 Students demonstrate an understanding of patterns and how patterns grow and describe them in general ways:	
2.1 Recognize, describe, and extend patterns and determine a next term in linear patterns (e.g., 4, 8, 12...; the number of ears on one horse, two horses, three horses, four horses).	Pretest: 3 Week 1: 20A, 22A Week 2: 34A Week 3: 56A, 66A Week 4: 80A, 88A, 89 Week 5: 95 Posttest: 147
2.2 Solve problems involving simple number patterns.	Week 1: 6D Week 4: 72C

M a t h e m a t i c a l R e a s o n i n g

Content Standard	<i>Summer Success Math-Teacher Edition Grade 2</i>
1.0 Students make decisions about how to set up a problem:	
1.1 Determine the approach, materials, and strategies to be used.	Pretest: 6 Week 1: 6d, 8, 14, 14A, 16, 20A, 22, 22A, 24, 25-26 Week 2: 30, 34A, 36, 38, 42A, 44, 46-47 Week 3: 50C, 52, 56A, 58, 58A, 59, 64A, 66, 66A, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 88, 88A, 91-92 Week 5: 94C, 96, 100A, 102A, 104, 108A, 110, 110A, 112, 113-114 Week 6: 116A, 118, 122A, 124, 124A, 124B, 126, 130A, 132, 132A, 132B, 134, 135-136 Posttest: 150

Content Standard	<i>Summer Success Math-Teacher Edition Grade 2</i>
1.2 Use tools, such as manipulatives or sketches, to model problems.	Pretest: 6 Week 1: 6d, 8, 14, 14A, 16, 20A, 22, 22A, 24, 25-26 Week 2: 30, 34A, 36, 38, 42A, 44, 46-47 Week 3: 50C, 52, 56A, 58, 58A, 59, 64A, 66, 66A, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 88, 88A, 91-92 Week 5: 94C, 96, 100A, 102A, 104, 108A, 110, 110A, 112, 113-114 Week 6: 116A, 118, 122A, 124, 124A, 124B, 126, 130A, 132, 132A, 132B, 134, 135-136 Posttest: 150
2.0 Students solve problems and justify their reasoning:	
2.1 Defend the reasoning used and justify the procedures selected.	Week 1: 6d, 8, 14, 14A, 16, 20A, 22, 22A, 24, 25-26 Week 2: 30, 34A, 36, 38, 42A, 44, 46-47 Week 3: 50C, 52, 56A, 58, 58A, 59, 64A, 66, 66A, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 88, 88A, 91-92 Week 5: 94C, 96, 100A, 102A, 104, 108A, 110, 110A, 112, 113-114 Week 6: 116A, 118, 122A, 124, 124A, 124B, 126, 130A, 132, 132A, 132B, 134, 135-136
2.2 Make precise calculations and check the validity of the results from the context of the problem.	Week 1: 6d, 8, 14, 14A, 16, 20A, 22, 22A, 24, 25-26 Week 2: 30, 34A, 36, 38, 42A, 44, 46-47 Week 3: 50C, 52, 56A, 58, 58A, 59, 64A, 66, 66A, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 88, 88A, 91-92 Week 5: 94C, 96, 100A, 102A, 104, 108A, 110, 110A, 112, 113-114 Week 6: 116A, 118, 122A, 124, 124A, 124B, 126, 130A, 132, 132A, 132B, 134, 135-136
3.0 Students note connections between one problem and another.	



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Grade 3
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California Mathematics Content Standards
Grade 3

N u m b e r S e n s e

Content Standard	<i>Summer Success Math-Teacher Edition Grade 3</i>
1.0 Students understand the place value of whole numbers:	
1.1 Count, read, and write whole numbers to 10,000.	Pretest: 1 Week 1: 6E, 9-10 Week 2, 28C, 29, 34A, 43 Week 3: 50C, 64A, 65, 66A, 67 Week 4: 87 Week 6: 116C, 117 Posttest: 145
1.2 Compare and order whole numbers to 10,000.	Pretest: 1 Week 1: 9-10, 12B, 13, 14B, 22A Week 2: 34A, 35 Week 3: 50C, 64A, 65 Week 5: 109 Week 6: 116C, 117, 123 Posttest: 145
1.3 Identify the place value for each digit in numbers to 10,000.	Pretest: 1 Week 1: 7, 12A, 14A, 15, 22A, 23 Week 2: 28C, 34A, 36A, 42A, 44A Week 3: 50A Week 4: 86A Week 6: 132A Posttest: 145
1.4 Round off numbers to 10,000 to the nearest ten, hundred, and thousand.	Pretest: 1 Week 1: 20A, 20B, 21, 22A, 23 Week 2: 30, 36A, 37, 44A, 45 Week 6: 122A, 123 Posttest: 145

Content Standard	<i>Summer Success Math-Teacher Edition Grade 3</i>
1.5 Use expanded notation to represent numbers (e.g., $3,206 = 3,000 + 200 + 6$).	Pretest: 1 Week 1: 12A, 15 Week 2: 28C, 29, 43 Week 3: 50C, 51, 65, 67 Week 4: 87 Week 6: 117 Posttest: 145
2.0 Students calculate and solve problems involving addition, subtraction, multiplication, and division.	
2.1 Find the sum or difference of two whole numbers between 0 and 10,000.	Pretest: 2 Week 1: 24, 25-26 Week 2: 31-32 Week 3: 50C, 51, 53-54, 56A, 57, 58, 59, 61-62, 66A, 67 Week 4: 72C, 73, 75-76, 78A, 79, 80A, 81, 86A, 87, 88A, 89 Week 5: 108A, 109 Week 6: 116D, 117, 122A, 122B, 123 Posttest: 146
2.2 Memorize to automaticity the multiplication table for numbers between 1 and 10.	Week 1: 12A, 13, 14A, 15, 20A, 21, 22A, 23A Week 2: 28C, 29, 34A, 36A, 36B, 37, 39-40, 42A, 44A, 45 Week 3: 64A, 65 Week 4: 73, 86A, 87, 89 Week 5: 100A, 102A, 108A, 110, 110A, 111 Week 6: 124A
2.3 Use the inverse relationship of multiplication and division to compute and check results.	The opportunity to address this objective is available on the following pages: Week 5: 94C, 95, 100A, 101, 102, 110A Week 6: 130A, 131, 135
2.6 Understand the special properties of 0 and 1 in multiplication and division.	Week 1: 6D, 7
2.8 Solve problems that require two or more of the skills mentioned above.	The opportunity to address this objective is available on the following pages: Week 2: 35 Week 3: 65, 67 Week 4: 87, 89 Week 6: 117, 133
3.0 Students understand the relationship between whole numbers, simple fractions, and decimals:	

Content Standard	Summer Success Math-Teacher Edition Grade 3
3.1 Compare fractions represented by drawings or concrete materials to show equivalency and to add and subtract simple fractions in context (e.g., $\frac{1}{2}$ of a pizza is the same amount as $\frac{2}{4}$ of another pizza that is the same size; show that $\frac{3}{8}$ is larger than $\frac{1}{2}$).	Week 4: 80A, 81, 85-86, 89 Week 5: 95, 100A, 101, 102A, 103, 105-103, 110A, 111 Week 6: 124A, 125
3.3 Solve problems involving addition, subtraction, multiplication, and division of money amounts in decimals notation and multiply and divide money amounts in decimal notation by using whole-number multipliers and divisors.	Week 1: 14B, 15, 22B Week 2: 48 Week 5: 94D, 95, 96 Week 6: 132A, 133
3.4 Know and understand that fractions and decimals are two different representations of the same concept (e.g., 50 cents is $\frac{1}{2}$ of a dollar, 75 cents is $\frac{3}{4}$ of a dollar).	Week 4: 80A, 88A Week 6: 130A, 131

Algebra and Functions

Content Standards	Summer Success Math-Teacher Edition Grade 3
1.0 Students select appropriate symbols, operations, and properties to represent, describe, simplify, and solve simple number relationships:	
1.1 Represent relationships of quantities in the form of mathematical expressions, equation, or inequalities.	Pretest: 2 Week 1: 13, 15, 20A, 21 Week 2: 29, 34A, 35, 36A, 37, 42A, 44A, 45 Week 3: 50C, 51, 56A, 56B, 58A, 58B Week 4: 72C, 78A, 79, 86A, 87, 88A Week 5: 94C, 95, 100A, 101, 102A, 108A, 110A, 111 Week 6: 116C, 117, 122A, 124A, 130A, 132A Posttest: 146
1.2 Solve problems involving numeric equations or inequalities.	Pretest: 2 Week 1: 13, 15, 20A, 21 Week 2: 29, 34A, 35, 36A, 37, 42A, 44A, 45 Week 3: 50C, 51, 56A, 56B, 58A, 58B Week 4: 72C, 78A, 79, 86A, 87, 88A Week 5: 94C, 95, 100A, 101, 102A, 108A, 110A, 111 Week 6: 116C, 117, 122A, 124A, 130A, 132A Posttest: 146
1.4 Express simple unit conversions in symbolic form (e.g., $\frac{1}{2}$ inches = $\frac{1}{2}$ feet x 12).	Week 1: 19-20 Week 3: 63-64, 64B Week 4: 80B Week 5: 97-98, 102B, 103, 110B, 112 Week 6: 119-120, 130B

Content Standards	<i>Summer Success Math-Teacher Edition Grade 3</i>
1.5 Recognize and use the commutative and associative properties of multiplication (e.g., if $5 \times 7 = 35$, then what is 7×5 ? And if $5 \times 7 \times 3 = 105$, then what is $7 \times 3 \times 5$?).	Week 4: 94C
2.0 Students represent simple functional relationships:	
2.1 Solve simple problems involving a functional relationship between two quantities (e.g., find the total cost of multiple items given the cost per unit).	Pretest: 3 Week 1: 6D, 12A, 14, 22A Week 4: 78A, 82 Week 6: 116C, 124A Posttest: 147
2.2 Extend and recognize a linear pattern by its rules (e.g., the number of legs on a given number of horses may be calculated by counting by 4s or by multiplying the number of horses by 4).	Pretest: 3 Week 1: 8, 15, 20A, 22A Week 2: 28C Week 3: 56A, 66A Week 6: 116C, 132 Posttest: 147

Measurement and Geometry

Content Standard	<i>Summer Success Math-Teacher Edition Grade 3</i>
1.0 Students choose and use appropriate units and measurement tools to quantify the properties of objects:	
1.1 Choose the appropriate tools and units (metric and U.S.) and estimate and measure the length, liquid volume, and weight/mass of given objects.	Pretest: 4 Week 3: 50D, 56B, 58B, 59, 60, 63-64, 64B, 65, 66B, 70 Week 4: 74, 75-76, 80, 80B, 86B, 88, 88B, 91 Week 5: 94D, 96, 97-98, 100B, 102B, 103, 108B, 110B, 111, 112 Week 6: 122B, 124B, 129-130, 130B, 134, 136 Posttest: 148
1.2 Estimate or determine the area and volume of solid figures by covering them with squares or by counting the number of cubes that would fill them.	Week 6: 129-130
1.3 Find the perimeter of a polygon with integer sides.	Pretest: 4 Week 6: 129-130 Posttest: 148

Content Standard	<i>Summer Success Math-Teacher Edition Grade 3</i>
1.4 Carry out simple unit conversions within a system of measurement (e.g., centimeters and meters, hours and minutes)	Week 1: 19-20 Week 3: 63-64, 64B Week 4: 80B Week 5: 97-98, 102B, 103, 110B, 112 Week 6: 119-120, 130B
2.0 Students describe and compare the attributes of plane and solid geometric figures and use their understanding to show relationships and solve problems:	
2.1 Identify, describe, and classify polygons (including pentagons, hexagons, and octagons).	Week 1: 6E, 14B, 20B, 22B, 23 Week 2: 28D, 29, 34B, 44B Week 3: 58B, 66B Week 6: 116D, 132B
2.2 Identify attributes of triangles (e.g., two equal sides for the isosceles triangle, three equal sides for the equilateral triangle, right angle for the right triangle).	Pretest: 4 Week 1: 14B, 22, 22B Week 2: 42B Week 3: 50D, 66B Week 5: 113
2.3 Identify attributes of quadrilaterals (e.g., parallel sides for the parallelogram, right angles for the rectangle, equal sides and right angles for the square).	Week 1: 20B Week 3: 56B, 58B, 64B, 66B
2.4 Identify right angles in geometric figures or in appropriate objects and determine whether other angles are greater or less than a right angle.	Week 2: 42B, 43 Week 3: 50D, 66, 66B Week 4: 86B
2.5 Identify, describe, and classify common three-dimensional geometric objects (e.g., cube, rectangular solid, sphere, prism, pyramid, cone, cylinder).	Week 4: 72D, 78B, 79, 80B, 81, 83-84, 86B, 88B, 89 Week 5: 94D, 110B, 113 Week 6: 124B, 130B, 132B Posttest: 148

Statistics, Data Analysis, and Probability

Content Standard	<i>Summer Success Math-Teacher Edition Grade 3</i>
1.0 Students conduct simple probability experiments by determining the number of possible outcomes and make simple predictions:	

Content Standard	<i>Summer Success Math-Teacher Edition Grade 3</i>
1.1 Identify whether common events are certain, likely, unlikely, or improbable.	Pretest: 5 Week 6: 121-122 Posttest: 149
2.3 Record the possible outcomes for a simple even (e.g., toss a coin) and systematically keep track of the outcomes when the event is repeated many times.	Week 6: 121-122
2.4 Summarize and display the results of probability experiments in a clear and organized way (e.g., use a bar graph or line plot).	Week 6: 121-122
2.5 Use the results of probability experiments to predict future events (e.g., use a line plot to predict the temperature forecast for the next day).	Week 6: 121-122

M a t h e m a t i c a l R e a s o n i n g

Content Standard	<i>Summer Success Math-Teacher Edition Grade 3</i>
1.0 Students make decisions about how to approach problems:	
1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.	Pretest: 6 Week 1: 8, 14, 15, 22, 24, 25-26 Week 2: 36B, 42B, 36, 44, 44B, 47-48 Week 3: 50C, 52, 56A, 58, 58B, 60, 66, 68, 69-70 Week 4: 72C, 74, 78A, 78B, 80, 80A, 86A, 88, 88A, 90 91-92 Week 5: 94C, 96, 100A, 102, 102A, 104, 108A, 110, 110A, 112, 113-114 Week 6: 116C, 116D, 122A, 124, 124A, 124B, 126, 130A, 130B, 132, 132A 134 Posttest: 146
1.2 Determine when and how to break a problem into simpler parts.	Week 2: 35 Week 3: 65, 67 Week 4: 87, 89 Week 6: 117, 133
2.0 Students use strategies, skills, and concepts in finding solutions:	

Content Standard	<i>Summer Success Math-Teacher Edition Grade 3</i>
2.1 Use estimation to verify the reasonableness of calculated results.	Week 1: 22 Week 4: 72C, 86A, 88A Week 6: 116C
2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	Pretest: 6 Week 1: 8, 14, 15, 22, 24, 25-26 Week 2: 36B, 42B, 36, 44, 44B, 47-48 Week 3: 50C, 52, 56A, 58, 58B, 60, 66, 68, 69-70 Week 4: 72C, 74, 78A, 78B, 80, 80A, 86A, 88, 88A, 90 91-92 Week 5: 94C, 96, 100A, 102, 102A, 104, 108A, 110, 110A, 112, 113-114 Week 6: 116C, 116D, 122A, 124, 124A, 124B, 126, 130A, 130B, 132, 132A 134 Posttest: 146
2.4 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.	Pretest: 6 Week 1: 8, 14, 15, 22, 24, 25-26 Week 2: 36B, 42B, 36, 44, 44B, 47-48 Week 3: 50C, 52, 56A, 58, 58B, 60, 66, 68, 69-70 Week 4: 72C, 74, 78A, 78B, 80, 80A, 86A, 88, 88A, 90 91-92 Week 5: 94C, 96, 100A, 102, 102A, 104, 108A, 110, 110A, 112, 113-114 Week 6: 116C, 116D, 122A, 124, 124A, 124B, 126, 130A, 130B, 132, 132A 134 Posttest: 146
2.5 Indicate the relative advantages of exact and approximate solutions to problems and give answers to specified degree of accuracy.	The opportunity to address this objective is available on the following pages: Week 1: 8, 14, 15, 22, 24, 25-26 Week 2: 36B, 42B, 36, 44, 44B, 47-48 Week 3: 50C, 52, 56A, 58, 58B, 60, 66, 68, 69-70 Week 4: 72C, 74, 78A, 78B, 80, 80A, 86A, 88, 88A, 90 91-92 Week 5: 94C, 96, 100A, 102, 102A, 104, 108A, 110, 110A, 112, 113-114 Week 6: 116C, 116D, 122A, 124, 124A, 124B, 126, 130A, 130B, 132, 132A 134
2.6 Make precise calculations and check the validity of the results from the context of the problem.	Pretest: 6 Week 1: 8, 14, 15, 22, 24, 25-26 Week 2: 36B, 42B, 36, 44, 44B, 47-48 Week 3: 50C, 52, 56A, 58, 58B, 60, 66, 68, 69-70 Week 4: 72C, 74, 78A, 78B, 80, 80A, 86A, 88, 88A, 90 91-92 Week 5: 94C, 96, 100A, 102, 102A, 104, 108A, 110, 110A, 112, 113-114 Week 6: 116C, 116D, 122A, 124, 124A, 124B, 126, 130A, 130B, 132, 132A 134 Posttest: 146

Content Standard	<i>Summer Success Math-Teacher Edition Grade 3</i>
3.0 Students move beyond a particular problem by generalizing to other situations:	
3.1 Evaluate the reasonableness of the solution in the context of the original situation.	<p>The opportunity to address this objective is available on the following pages:</p> <p>Week 1: 8, 14, 15, 22, 24, 25-26 Week 2: 36B, 42B, 36, 44, 44B, 47-48 Week 3: 50C, 52, 56A, 58, 58B, 60, 66, 68, 69-70 Week 4: 72C, 74, 78A, 78B, 80, 80A, 86A, 88, 88A, 90 91-92 Week 5: 94C, 96, 100A, 102, 102A, 104, 108A, 110, 110A, 112, 113-114 Week 6: 116C, 116D, 122A, 124, 124A, 124B, 126, 130A, 130B, 132, 132A 134</p>
3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.	Week 2: 30
3.3 Develop generalization of the results obtained and apply them in other circumstances.	Week 2: 30



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Grade 4
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California Mathematics Content Standards
Grade 4

N u m b e r S e n s e

Content Standard	Summer Success Math-Teacher Edition Grade 4
1.0 Students understand the place value of whole numbers and decimals to two decimal places and how whole numbers and decimals relate to simple fractions. Students use the concepts of negative numbers:	
1.1 Read and write whole numbers in the millions.	Pretest: 1 Week 1: 6D, 7, 9-10, 12A, 13, 14A, 15, 16, 19-20, 23 Week 2: 30 Posttest: 145
1.2 Order and compare whole numbers and decimals to two decimal places.	Week 1: 9-10, 14A, 12B, 13, 14A, 14B, 15, 22A, 23 Week 3: 56A, 57, 63-64, 65, 67 Week 4: 88A Week 5: 97-98
1.3 Round whole numbers through the millions to the nearest ten, hundred, thousand, ten thousand, or hundred thousand.	Week 3: 63, 64, 64A, 65, 66A, 67 Week 5: 103, 108A, 111
1.4 Decide when a rounded solution is called for and explain why such a solution may be appropriate.	The opportunity to address this objective is available on the following pages: Week 4: 66A, 67
1.5 Explain different interpretations of fractions, for example, parts of a whole, parts of a set, and division of whole numbers by whole numbers; explain equivalents of fractions.	Pretest: 1 Week 4: 72C, 78A, 79, 80A, 81, 86A, 91-92 Week 5: 94C, 100A, 101, 102A, 103, 108A, 109 Week 6: 116C, 117, 122A, 123-124, 124A, 125, 131, 132A Posttest: 145

Content Standard	<i>Summer Success Math-Teacher Edition Grade 4</i>
1.6 Write tenths and hundredths in decimal and fraction notations and know the fraction and decimal equivalents for halves and fourths (e.g., $\frac{1}{2} = 0.5$ or $\frac{7}{4} = 1 \frac{3}{4} = 1.75$).	Pretest: 1 Week 4: 72C, 78C, 79, 80A, 81, 86C, 88A Week 5: 94C, 97-98, 100A, 102A, 103, 107-108, 108A, 109, 110A, 111 Week 6: 117, 124A, 125, 127-128, 132A, 133 Posttest: 145
1.7 Write the fraction represented by a drawing of parts of a figure; represent a given fraction by using drawings; and relate a fraction to a simple decimal on a number line.	Week 4: 72C, 78A, 79, 80A, 81, 86C Week 5: 94C, 97-98, 100A, 101, 102A, 103, 107-108, 108A, 109 Week 6: 116C, 117, 122A, 123-124, 124A, 125, 131, 132A
1.9 Identify on a number line the relative position of positive fractions, positive mixed numbers, and positive decimals to two decimal places.	Week 5: 94A, 102A, 108A, 110A, 111 Week 6: 122A, 133
2.0 Students extend their use and understanding of whole numbers to the addition and subtraction of simple decimals.	
2.1 Estimate and compute the sum or difference of whole numbers and positive decimals to two places.	Week 3: 56A, 66A, 67
3.0 Students solve problems involving addition, subtraction, multiplication, and division of whole numbers and understand the relationships among the operations:	
3.1 Demonstrate an understanding of, and the ability to use, standard algorithms for the addition and subtraction of multi-digit numbers.	Week 1: 7, 13, 17-18 Week 2: 31-32 Week 3: 61-62 Week 6: 127-128
4.0 Students know how to factor small whole numbers:	
4.1 Understand that many whole numbers break down in different ways (e.g., $12 = 4 \times 3 = 2 \times 6 = 2 \times 2 \times 3$).	Week 2: 28C, 34A, 42A, 44A, 45 Week 3: 50C, 51, 58A, 69
4.2 Know that numbers such as 2, 3, 5, 7, and 11 do not have any factors except 1 and themselves and that such numbers are called prime numbers.	Week 2: 36A Week 3: 50C, 51

Algebra and Functions

Content Standards	<i>Summer Success Math-Teacher Edition Grade 4</i>
1.0 Students use and interpret variables, mathematical symbols, and properties to write and simplify expressions and sentences:	
1.1 Use letters, boxes, or other symbols to stand for any number in simple expressions or equations (e.g., demonstrate an understanding and the use of the concept of a variable).	The opportunity to address this objective is available on the following pages: Week 3: 56A, 57, 58A, 66A, 67 Week 4: 86A, 87, 88A
1.2 Interpret and evaluate mathematical expressions that now use parentheses.	The opportunity to address this objective is available on the following pages: Week 2: 42A, 43 Week 3: 64A
1.3 Use parentheses to indicate which operation to perform first when writing expressions containing more than two terms and different operations.	The opportunity to address this objective is available on the following pages: Week 2: 42A, 43 Week 3: 64A, 65
1.4 Use and interpret formulas (e.g., $\text{area} = \text{length} \times \text{width}$ or $A = lw$) to answer questions about quantities and their relationships.	Week 3: 56B, 66B Week 4: 72D, 78A Week 6: 124B, 129-130, 132B
1.5 Understand that an equation such as $y = 3x + 5$ is a prescription for determining a second number when a first number is given.	Week 3: 56A, 57, 58A, 66A, 67 Week 4: 78A, 88A

Measurement and Geometry

Content Standard	<i>Summer Success Math-Teacher Edition Grade 4</i>
1.0 Students understand perimeter and area:	
1.1 Measure the area of rectangular shapes by using appropriate unit, such as square centimeter (cm ²), square meter (m ²), square kilometer (km ²), square inch (in ²), square yard (yd ²), or square mile (mi ²).	Week 3: 56B, 66B Week 6: 124B, 129-130, 131, 132B, 133
1.2 Recognize that rectangles that have the same area can have different perimeters.	Week 3: 56B Week 6: 129-130

Content Standard	<i>Summer Success Math-Teacher Edition Grade 4</i>
1.3 Understand that rectangles that have the same area perimeter can have different areas.	Week 3: 56B Week 6: 129-130
1.4 Understand and use formulas to solve problems involving perimeters and areas of rectangles and squares. Use those formulas to find the areas of more complex figures by dividing the figures into basic shapes.	Pretest: 4 Week 3: 56B, 66B Week 4: 78A Week 6: 124B, 129-130, 132B Posttest: 148
3.0 Students demonstrate an understanding of plane and solid geometric objects and use this knowledge to show relationships and solve problems:	
3.1 Identify lines that are parallel and perpendicular.	Week 3: 58B, 64B Week 6: 122B, 123-124
3.3 Identify congruent figures.	Week 2: 36B, 44B Week 5: 100B, 102B, 108B
3.4 Identify figures that have bilateral and rotational symmetry.	Week 1: 6E, 7, 23 Week 2: 28D, 37
3.5 Know the definitions of right angle, an acute angle, and an obtuse angle. Understand that 90° , 180° , 270° , and 360° are associated, respectively, with \perp , \rightarrow , \curvearrowright , and full turns.	Week 1: 14B, 20B Week 3: 50D, 51, 59, 64B Week 5: 110B Week 6: 116D
3.6 Visualize, describe, and make models of geometric solids (e.g., prisms, pyramids) in terms of the number and shape of faces, edges, and vertices; interpret two-dimensional representations of three-dimensional objects; and draw patterns (of faces) for a solid that, when cut and folded, will make a model of the solid.	Week 3: 70 Week 4: 72D, 73, 75-76, 78B, 80B, 81, 82, 86B, 88B, 89, 93 Week 6: 124B, 130B, 131, 132B
3.7 Know the definitions of different triangles (e.g., equilateral, isosceles, scalene) and identify their attributes.	Pretest: 4 Week 1: 14B, 15, 22B Week 2: 44 Week 3: 64B Posttest: 148
3.8 Know the definition of different quadrilaterals (e.g., rhombus, square, rectangle, parallelogram, trapezoid).	Week 1: 6E, 20B, 22B Week 3: 56B, 58B, 64B, 66B Week 6: 116D, 132A, 132B

Statistics, Data Analysis, and Probability

Content Standard	<i>Summer Success Math-Teacher Edition Grade 4</i>
1.0 Students organize, represent, and interpret numerical and categorical data and clearly communicate their findings:	
1.1 Formulate survey questions; systematically collect and represent data on a number line; and coordinate graphs, tables, and charts.	Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 94D, 99-100 Week 6: 121-122
1.2 Identify the mode(s) for sets of categorical data and the mode(s), median, and any apparent outliers for numerical data sets.	Week 4: 77-78 Week 6: 121-122
1.3 Interpret one- and two-variable data graphs to answer questions about a situation.	Pretest: 5 Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 99-100 Week 6: 121-122 Posttest: 149
2.0 Students make predictions for simple probability situations;	
2.1 Represent all possible outcomes for a simple probability situation in an organized way (e.g., tables, grids, tree diagrams).	Week 1: 24 Week 5: 99-100 Week 6: 121-122
2.2 Express outcomes of experimental probability situations verbally and numerically (e.g., 3 out of 4; $\frac{3}{4}$).	Week 5: 99-100 Week 6: 121-122

Mathematical Reasoning

Content Standard	<i>Summer Success Math-Teacher Edition Grade 4</i>
1.0 Students make decisions about how to approach problems:	
1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.	Pretest: 6 Week 1: 8, 14, 16, 22, 24, 25-26 Week 2: 30, 36, 38, 44, 46, 47-48 Week 3: 52, 58, 60, 66, 68, 69-70 Week 4: 80, 82, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 112, 113-114 Week 6: 118, 124, 126, 132, 134, 135-136 Posttest: 150
1.2 Determine when and how to break a problem into simpler parts.	Week 3: 60 Week 4: 80 Week 5: 102 Week 6: 124, 132
2.0 Students use strategies, skills, and concepts in finding solutions:	
2.1 Use estimation to verify the reasonableness of calculated results.	Week 4: 74, 90 Week 5: 96, 110, 113-114
2.2 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	Pretest: 6 Week 1: 8, 14, 16, 22, 24, 25-26 Week 2: 30, 36, 38, 44, 46, 47-48 Week 3: 52, 58, 60, 66, 68, 69-70 Week 4: 80, 82, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 112, 113-114 Week 6: 118, 124, 126, 132, 134, 135-136 Posttest: 150
2.3 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.	Pretest: 6 Week 1: 8, 14, 16, 22, 24, 25-26 Week 2: 30, 36, 38, 44, 46, 47-48 Week 3: 52, 58, 60, 66, 68, 69-70 Week 4: 80, 82, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 112, 113-114 Week 6: 118, 124, 126, 132, 134, 135-136 Posttest: 150

Content Standard	<i>Summer Success Math-Teacher Edition Grade 4</i>
2.6 Make precise calculations and check the validity of the results from the context of the problem.	Pretest: 6 Week 1: 8, 14, 16, 22, 24, 25-26 Week 2: 30, 36, 38, 44, 46, 47-48 Week 3: 52, 58, 60, 66, 68, 69-70 Week 4: 80, 82, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 112, 113-114 Week 6: 118, 124, 126, 132, 134, 135-136 Posttest: 150
3.0 Students move beyond a particular problem by generalizing to other situations:	
3.1 Evaluate the reasonableness of the solution in the context of the original situation.	Week 1: 25-26 Week 2: 47-48 Week 3: 69-70 Week 4: 91-92 Week 5: 113-114 Week 6: 135-136



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Grade 5
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California Mathematics Content Standards
Grade 5

N u m b e r S e n s e

Content Standard	Summer Success Math-Teacher Edition Grade 5
1.0 Students compute with very large and very small numbers, positive integers, decimals, and fractions and understand the relationship between decimals, fractions, and percents. They understand the relative magnitudes of numbers:	
1.1 Estimate, round and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers.	Week 2: 31-32, 39-40 Week 5: 99-100, 100A, 102A, 103, 108A, 109-112
1.2 Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number	Pretest: 1 Week 1: 9-10, 12A, 14A, 20A, 22A Week 2: 28C, 34A, 44A Week 3: 56A, 58A, 64A Week 4: 72C, 73-74, 78A, 83-84, 85-86, 86A, 88A Week 5: 105-106 Posttest: 145
1.3 Understand and compute positive integer powers of nonnegative integers; compute examples as repeated multiplication.	Pretest: 1, 2 Week 5: 94C, 95, 97-98, 100A, 102A, 103, 109, 110A, 111 Posttest: 146
1.4 Determine the prime factors of all numbers through 50 and write the numbers as the product of their prime factors by using exponents to show multiples of a factor (e.g., $24 = 2 \times 2 \times 2 \times 3 = 2_3 \times 3$).	Week 3: 61-62 Week 6: 119-120, 130A, 131, 132A, 136

Content Standard	<i>Summer Success Math-Teacher Edition Grade 5</i>
1.5 Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers.	Week 1: 12A, 13, 14A, 20A, 22A, 23 Week 2: 28C, 34A, 35, 37, 43, 44A, 45 Week 3: 65, 66A, 67 Week 5: 96
2.0 Students perform calculations and solve problems involving addition, subtraction, and simple multiplication and division of fractions and decimals:	
2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results.	Pretest: 2 Week 1: 12A, 13-14, 14A, 15, 20A, 21, 23 Week 2: 28C, 29, 31-32, 34A, 35-36, 36A, 37, 41-42, 42A, 43, 44A, 45 Posttest: 146
2.2 Demonstrate proficiency with division, including division with positive decimals and long division with multidigit divisors.	Week 3: 53-54
2.3 Solve simple problems, including ones arising in concrete situations, involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less), and express answers in the simplest form.	Week 3: 50C, 51, 56A, 57, 58A, 59, 64A, 66A, 67 Week 4: 73, 85-86, 88A, 89 Week 6: 117
2.4 Understand the concept of multiplication and division of fractions.	Week 4: 72C, 78A, 80A, 86A Week 5: 109
2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems.	Week 4: 72C, 78A, 80A, 86A Week 5: 109

Algebra and Functions

Content Standards	<i>Summer Success Math-Teacher Edition Grade 5</i>
1.0 Students use variables in simple expressions, compute the value of the expression for specific values of the variable, and plot and interpret the results:	

Content Standards	<i>Summer Success Math-Teacher Edition Grade 5</i>
1.1 Use information taken from a graph or equation to answer questions about a problem situation.	Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 99-100 Week 6: 121-122
1.2 Use a letter to represent an unknown number; write and evaluate simple algebraic expressions in one variable by substitution.	Week 2: 28D, 36B, 42B, 44B Week 4: 78A
1.4 Identify and graph ordered pairs in the four quadrants of the coordinate plane.	Pretest: 4 Week 2: 36B, 44B, 45 Week 4: 74, 86B, 88B Posttest: 148
1.5 Solve problems involving linear functions with integer values; write equation; and graph the resulting ordered pairs of integers on a grid.	Pretest: 3 Week 2: 36A, 42A, 43, 44A Week 3: 52 Week 4: 87 Week 5: 100A, 101, 102A Posttest: 147

M e a s u r e m e n t a n d G e o m e t r y

Content Standard	<i>Summer Success Math-Teacher Edition Grade 5</i>
1.0 Students understand and compute the volumes and areas of simple object:	
1.1 Derive and use the formula for the area of a triangle and of a parallelogram by comparing it with the formula for the area of a rectangle (i.e., two of the same triangles make a parallelogram with twice the area; a parallelogram is compared with a rectangle of the same area by cutting and pasting a right triangle on the parallelogram.	Week 3: 50D, 51, 59 Week 6: 122B, 124B, 125
1.2 Construct a cube and rectangular box from two-dimensional patterns and use these patterns to compute the surface area for these objects.	Week 3: 64B, 65, 66B, 67 Week 4: 75-76, 78B, 79, 89 Week 5: 108B

Content Standard	<i>Summer Success Math-Teacher Edition Grade 5</i>
1.3 Understand the concept of volume and use the appropriate units in common measuring systems (i.e., cubic centimeter [cm ³], cubic meter [m ³], cubic inch [in ³], cubic yard [yd ³]) to compute the volume of rectangular solids.	Pretest: 4 Week 3: 69 Week 4: 72D, 73, 80B, 88B Week 5: 102B, 103 Posttest: 148
1.4 Differentiate between and use appropriate units of measures for, two-and three-dimensional objects (i.e., find the perimeter, area, volume)	Week 4: 88B
2.0 Students identify, describe, and classify the properties of, and the relationships between, plane and solid geometric figures:	
2.1 Measure, identify, and draw angles, perpendicular and parallel lines, rectangles, and triangles by using appropriate tools (e.g., straightedge, rule, compass, protractor, drawing software).	Week 2: 28D, 42B, 46 Week 5: 104, 108B, 110B
2.2 Know that the sum of the angles of any triangle is 180° and the sum of the angles of any quadrilateral is 360° and use this information to solve problems.	Week 2: 34B Week 5: 100B, 108B, 110B
2.3 Visualize and draw two-dimensional views of three-dimensional objects made from rectangular solids.	Week 3: 50D, 56B, 58B, 64, 65, 67, 66B Week 4: 75-76, 78B

Statistics, Data Analysis, and Probability

Content Standard	<i>Summer Success Math-Teacher Edition Grade 5</i>
1.0 Students display, analyze, compare, and interpret different data sets, including data sets of different sizes:	
1.1 Know the concepts of mean, median, and mode; compute and compare simple examples to show that they may differ.	Pretest: 5 Week 2: 34 Week 3: 60 Week 4: 77-78 Week 5: 92, 100 Posttest: 149

Content Standard	<i>Summer Success Math-Teacher Edition Grade 5</i>
1.2 Organize and display single variable data in appropriate graphs and representations (e.g., histogram, circle graphs) and explain which types of graphs are appropriate for various data sets.	Pretest: 5 Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 95C, 99-100 Week 6: 121-122 Posttest: 149
1.3 Use fractions and percentages to compare data sets of different sizes.	The opportunity to address this objective is available on the following pages: Week 1: 11-12 Week 2: 33-34 Week 3: 55-56 Week 4: 77-78 Week 5: 99-100 Week 6: 121-122
1.4 Identify ordered pairs of data from a graph and interpret the meaning of the data in terms of the situation depicted by the graph.	Week 3: 55-56
1.5 Know how to write orders pairs correctly; for example (x, y).	Week 2: 36B, 44B Week 4: 86B, 88B

M a t h e m a t i c a l R e a s o n i n g

Content Standard	<i>Summer Success Math-Teacher Edition Grade 5</i>
1.0 Students make decisions about how to approach problems:	
1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.	Pretest: 6 Week 1: 6D, 8, 12A, 14, 14A, 20A, 22, 22A, 24, 25-26 Week 2: 28C, 30, 36, 38, 44A, 44B, 46, 47-48 Week 3: 50C, 52, 56A, 56B, 58, 60, 66, 66A, 66B, 68, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 86B, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 110A, 110B, 112, 112-114 Week 6: 118, 124, 126, 135-136 Posttest: 150

Content Standard	<i>Summer Success Math-Teacher Edition Grade 5</i>
1.2 Determine when and how to break a problem into simpler parts.	<p>The opportunity to address this objective is available on the following pages:</p> <p>Week 1: 6D, 8, 12A, 14, 14A, 20A, 22, 22A, 24, 25-26 Week 2: 28C, 30, 36, 38, 44A, 44B, 46, 47-48 Week 3: 50C, 52, 56A, 56B, 58, 60, 66, 66A, 66B, 68, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 86B, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 110A, 110B, 112, 112-114 Week 6: 118, 124, 126, 135-136</p>
2.0 Students use strategies, skills, and concepts in finding solutions:	
2.1 Use estimation to verify the reasonableness of calculated results.	<p>Week 1: 24 Week 4: 82 Week 5: 96, 104 Week 6: 118, 126</p>
2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	<p>Week 1: 6D, 8, 12A, 14, 14A, 20A, 22, 22A, 24, 25-26 Week 2: 28C, 30, 36, 38, 44A, 44B, 46, 47-48 Week 3: 50C, 52, 56A, 56B, 58, 60, 66, 66A, 66B, 68, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 86B, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 110A, 110B, 112, 112-114 Week 6: 118, 124, 126, 135-136</p>
2.4 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.	<p>Week 1: 6D, 8, 12A, 14, 14A, 20A, 22, 22A, 24, 25-26 Week 2: 28C, 30, 36, 38, 44A, 44B, 46, 47-48 Week 3: 50C, 52, 56A, 56B, 58, 60, 66, 66A, 66B, 68, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 86B, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 110A, 110B, 112, 112-114 Week 6: 118, 124, 126, 135-136</p>
2.5 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy.	<p>The opportunity to address this objective is available on the following pages:</p> <p>Week 1: 6D, 8, 12A, 14, 14A, 20A, 22, 22A, 24, 25-26 Week 2: 28C, 30, 36, 38, 44A, 44B, 46, 47-48 Week 3: 50C, 52, 56A, 56B, 58, 60, 66, 66A, 66B, 68, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 86B, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 110A, 110B, 112, 112-114 Week 6: 118, 124, 126, 135-136</p>

Content Standard	<i>Summer Success Math-Teacher Edition Grade 5</i>
2.6 Make precise calculations and check the validity of the results from the context of the problem.	Week 1: 6D, 8, 12A, 14, 14A, 20A, 22, 22A, 24, 25-26 Week 2: 28C, 30, 36, 38, 44A, 44B, 46, 47-48 Week 3: 50C, 52, 56A, 56B, 58, 60, 66, 66A, 66B, 68, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 86B, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 110A, 110B, 112, 112-114 Week 6: 118, 124, 126, 135-136
3.0 Students move beyond a particular problem by generalizing to other situations:	
3.1 Evaluate the reasonableness of the solution in the context of the original situation.	The opportunity to address this objective is available on the following pages: Week 1: 6D, 8, 12A, 14, 14A, 20A, 22, 22A, 24, 25-26 Week 2: 28C, 30, 36, 38, 44A, 44B, 46, 47-48 Week 3: 50C, 52, 56A, 56B, 58, 60, 66, 66A, 66B, 68, 69-70 Week 4: 72C, 74, 78A, 80, 80A, 82, 86A, 86B, 88, 90, 91-92 Week 5: 96, 102, 104, 110, 110A, 110B, 112, 112-114 Week 6: 118, 124, 126, 135-136
3.2 Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.	Week 1: 14, 22 Week 2: 30 Week 5: 102
3.3 Develop generalizations of the results obtained and apply them in other circumstances.	Week 1: 14, 22 Week 2: 30 Week 5: 102



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Grade 6
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California Mathematics Content Standards
Grade 6

N u m b e r S e n s e

Content Standard	Summer Success Math-Teacher Edition Grade 6
1.0 Students compare and order positive and negative fractions, decimals, and mixed numbers. Students solve problems involving fractions, ratios, proportions, and percentages:	
1.1 Compare and order positive and negative fractions, decimals, and mixed numbers and place them on a number line.	Pretest: 1, 2 Week 2: 44B, 48A, 50 Week 3: 54C, 60A, 62, 64A, 67-68, 68B, 68C, 72A Week 5: 108A, 112A Posttest: 165
1.2 Interpret and use ratios in different contexts (e.g., batting averages, miles per hour) to show the relative size of two quantities, using appropriate notations (a/b, a to b, a:b).	Pretest: 1, 2 Week 6: 126C, 126D, 127, 132A, 132B, 133, 136A, 136B, 137, 140B, 140C, 140D, 143-144, 144A, 144B, 145 Posttest: 165
1.3 Use proportions to solve problems (e.g., determine the value of N if $4/7 = N/21$, find the length of a side of a polygon similar to a known polygon). Use cross-multiplication as a method for solving such problems, understanding it as the multiplication of both sides of an equation by a multiplicative inverse.	Pretest: 1, 2, 3 Week 6: 127, 132A, 132B, 133, 136A, 136B, 137, 140B, 143-144, 144A, 145, 147-148 Posttest: 165, 166, 167
1.4 Calculate given percentages of quantities and solve problems involving discounts at sales, interest earned, and tips.	Week 2: 36B Week 3: 70

Content Standard	<i>Summer Success Math-Teacher Edition Grade 6</i>
2.0 Students calculate and solve problems involving addition, subtraction, multiplication, and division:	
2.1 Solve problems involving addition, subtraction, multiplication, and division of positive fractions and explain why a particular operation was used for a given situation.	Pretest: 2 Week 2: 30C, 31, 33-34, 36A, 37, 40A, 41, 42, 44B, 45, 48A, 47-48, 97 Week 3: 54C, 57-58, 60A, 61, 63, 65, 66, 68B, 69, 71-72, 72A, 73, 75-76 Week 4: 97 Posttest: 166
2.2 Explain the meaning of multiplication and division of positive fractions and perform the calculations (e.g., $5/8 \div 15/16 = 5/8 \times 16/15 = 2/3$)	The opportunity to address this objective is available on the following pages: Week 3: 54C, 57, 60A, 63-64, 65, 68B, 69, 72A
2.3 Solve addition, subtraction, multiplication, and division problems, including those arising in concrete situations that use positive and negative integers and combinations of these operations.	Pretest: 2, 3 Week 1: 7, 12A, 13, 14, 16A, 17 Week 2: 38 Week 4: 98 Week 5: 102C, 103, 108A, 112A, 113, 115-116, 116B, 117, 121 Week 6: 138, 146 Posttest: 166
2.4 Determine the least common multiple and the greatest common divisor of whole numbers; use them to solve problems with fractions (e.g., to find a common denominator to add two fractions or to find the reduced form for a fraction).	Pretest: 2 Week 4: 92B, 93, 96A, 97 Week 5: 110, 122 Week 6: 129-130 Posttest: 166

Algebra and Functions

Content Standards	<i>Summer Success Math-Teacher Edition Grade 6</i>
1.0 Students write verbal expressions and sentences as algebraic expressions and equations; they evaluate algebraic expressions, solve simple linear equations, and graph and interpret their results:	
1.1 Write and solve one-step linear equations in one variable.	Week 6: 143-144

Content Standards	<i>Summer Success Math-Teacher Edition Grade 6</i>
1.2 Write and evaluate an algebraic expression for a given situation, using up to three variables.	Pretest: 3 Week 4: 84A, 92B, 93-94, 96A Week 5: 116B, 120A Posttest: 167
1.3 Apply algebraic order of operations and the commutative, associative, and distributive properties to evaluate expressions; and justify each step in the process.	Pretest: 2, 3 Week 1: 6D, 12A, 12B, 13, 17, 22, 24A, 25 Week 3: 64A Week 4: 78C, 79, 84A, 85, 88A, 89 Week 5: 116B, 117, 120A, 121 Week 6: 139-139A Posttest: 166
1.4 Solve problems manually by using the correct order of operations or by using a scientific calculator.	Week 6: 139-139A
2.0 Students analyze and use tables, graphs, and rules to solve problems involving rates and proportions:	
2.1 Convert one unit of measurement to another (e.g., from feet to miles, from centimeters to inches).	Week 2: 49 Week 3: 56, 65 Week 4: 90 Week 6: 142
2.2 Demonstrate an understanding that <i>rate</i> is a measure of one quantity per unit of value of another quantity.	Pretest: 2 Week 6: 133, 137, 140B, 140C, 141, 141A, 144A, 144B, 145 Posttest: 166
2.3 Solve problems involving rates, average speed, distance, and time.	Pretest: 2 Week 6: 133, 137, 140B, 140C, 141, 141A, 144A, 144B, 145 Posttest: 166
3.0 Students investigate geometric patterns and describe them algebraically:	
3.1 Use variables in expressions describing geometric quantities (e.g., $P = 2w + 2l$, $A = 1/2bh$, $C = \pi d$ – the formulas for the perimeter of a rectangle, the area of a triangle, and the circumference of a circle, respectively).	Pretest: 6 Week 1: 6E, 7-8, 12B, 16B, 20C, 24B Week 2: 30D, 36B, 38, 40B, 42, 44C, 48B Week 3: 68C, 72B Week 5: 116C Week 6: 140-140A, 141-142, 144A, 147-148 Posttest: 170

Measurement and Geometry

Content Standard	<i>Summer Success Math-Teacher Edition Grade 6</i>
1.0 Students deepen their understanding of the measurement of plane and solid shapes and use this understanding to solve problems:	
1.1 Understand the concept of a constant such as π ; know the formulas for the circumference and area of a circle.	Pretest: 4 Week 3: 54D, 64B, 65-66, 68C, 72A Week 4: 93-94
1.2 Know common estimates of π (3.14; $22/7$) and use these values to estimate and calculate the circumference and the area of circles; compare with actual measurements.	Pretest: 4 Week 3: 54D, 60B, 64B, 65-66, 68C, 72A Week 4: 93-94
1.3 Know and use the formulas for the volume of triangular prisms and cylinders (area of base x height); compare these formulas and explain the similarity between them and the formula for the volume of a rectangular solid.	Week 4: 78D, 84B, 96B, 97-98
2.0 Students identify and describe the properties of two-dimensional figures:	
2.3 Draw quadrilaterals and triangles from given information about them (e.g., a quadrilateral having equal sides but no right angles, a right isosceles triangle).	Week 2: 30D, 32

Statistics, Data Analysis, and Probability

Content Standard	<i>Summer Success Math-Teacher Edition Grade 6</i>
1.0 Students compute and analyze statistical measurements for data sets:	
1.1 Compute the range, mean, median, and mode of data sets.	Pretest: 5 Week 6: 131-132, 135-136 Posttest: 169
1.2 Understand how additional data added to data sets may affect these computations of measures of central tendency.	The opportunity to address this objective is available on the following pages: Week 6: 131-132, 135-136

Content Standard	<i>Summer Success Math-Teacher Edition Grade 6</i>
1.3 Understand how the inclusion or exclusion or outliers affects measures of central tendency.	The opportunity to address this objective is available on the following pages: Week 6: 131-132, 135-136
1.4 Know why a specific measure of central tendency (mean, median) provides the most useful information in a given context.	The opportunity to address this objective is available on the following pages: Week 6: 131-132, 135-136
2.0 Students use data samples of a population and describe the characteristics and limitations of the samples:	
2.1 Compare different samples of a population with the data from the entire population and identify a situation in which it makes sense to use a sample.	Week 4: 83-84, 87-88
2.3 Analyze data displays and explain why the way in which the question was asked might have influenced the results obtained and why the way in which the results were displayed might have influenced the conclusions reached.	Week 1: 11-12, 15-16 Week 2: 35-36, 39-40 Week 3: 59-60, 63-64 Week 5: 107-108, 111-112 Week 6: 131-132, 135-136
2.4 Identify data that represent sampling errors and explain why the sample (and the display) might be biased.	The opportunity to address this objective is available on the following pages: Week 4: 83-84, 87-88
2.5 Identify claims based on statistical data and, in simple cases, evaluate the validity of the claims.	The opportunity to address this objective is available on the following pages: Week 4: 83-84, 87-88
3.0 Students determine theoretical and experimental probabilities and use these to make predictions about events.	
3.1 Represent all possible outcomes for compound events in an organized way (e.g., tables, grids, tree diagrams) and express the theoretical probability of each outcome.	Week 5: 107-108, 111-112, 116-117, 119-120
3.2 Use data to estimate the probability of future events (e.g., batting averages or number of accidents per mile driven).	Week 4: 87-88

Content Standard	<i>Summer Success Math-Teacher Edition Grade 6</i>
3.3 Represent probabilities as ratios, proportions, decimals between 0 and 1, and percentages between 0 and 100 and verify that the probabilities computed are reasonable; know that if P is the probability of an event 1-P is the probability of an event not occurring.	Pretest: 5 Week 4: 83-84, 87-88 Posttest: 169

Mathematical Reasoning

Content Standard	<i>Summer Success Math-Teacher Edition Grade 6</i>
1.0 Students make decisions about how to approach problems:	
1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, sequencing and prioritizing information, and observing patterns.	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
2.0 Students use strategies, skills, and concepts in finding solutions:	
2.1 Use estimation to verify the reasonableness of calculated results.	Week: 20-20A Week 2: 44-44A Week 6: 140A, 143-144, 147-148
2.4 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	Pretest: 6 Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148 Posttest: 170

Content Standard	<i>Summer Success Math-Teacher Edition Grade 6</i>
2.5 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; supports solutions with evidence in both verbal and symbolic work	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
2.7 Make precise calculations and check the validity of the results from the context of the problem.	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
3.0 Students move beyond a particular problem by generalizing to other situations:	
3.1 Evaluate the reasonableness of the solution in the context of the original situation.	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
3.2 Note the method if deriving the solution and demonstrate a conceptual understanding if the derivation by solving similar problems.	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148



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Grade 7

N u m b e r S e n s e

Content Standard	<i>Summer Success Math-Teacher Edition Grade 7</i>
1.0 Students know the properties of, and compute with, rational numbers expressed in a variety of forms:	
1.1 Read, write, and compare rational numbers in scientific notation (positive and negative powers of 10) with approximate numbers using scientific notation.	Pretest: 1 Week 6: 136A, 137, 140B-140C Posttest: 165
1.2 Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers.	Pretest 2, 3 Week 1: 6D, 12A, 14, 18, 19-19A Week 2: 33-34, 36A, 37, 38, 48A Week 3: 54C, 54D, 55-56, 60A, 61, 64A, 65, 66, 68, 68A, 68B, 69, 71-73, 72A, 75-76 Week 4: 92B, 96A Week 5: 120A, 121 Week 6: 126C, 127, 128, 132A, 133, 136A, 137 Posttest: 166, 167
1.3 Convert fractions to decimals and percents and use these representations in estimations, computations, and applications.	Pretest: 1 Week 1: 6D, 6E, 7, 12A, 13-14, 16A-16B, 17, 20B-20C, 21, 24A-24B, 25-26, 29-30 Week 2: 30C, 31, 36A, 37, 40A, 43-43A, 48A, 49 Week 3: 62 Week 4: 98 Week 6: 138 Posttest: 165

Content Standard	<i>Summer Success Math-Teacher Edition Grade 7</i>
1.5 Know that every rational number is either a terminating or repeating decimal and be able to convert terminating decimals into reduced fractions.	Week 1: 6D, 7, 12A, 13, 13A-16B, 17, 20B-20C, 21, 24A-24B Week 2: 30C, 31, 36A, 37, 40A, 48A, 49
1.6 Solve problems that involve discounts, markups, commissions, and profit and compute simple and compound interest.	Week 1: 20B Week 2: 40A Week 4: 78C Week 5: 118
2.0 Students use exponents, powers, and roots and use exponents in working with fractions:	
2.1 Understand negative whole-number exponents. Multiply and divide expressions involving exponents with a common base.	Week 4: 92A Week 6: 140B-140C
2.2 Add and subtract fractions by using factoring to find common denominators.	Week 1: 6D, 19-19A, 21, 24A Week 2: 30C, 31-32, 36A, 37-38, 40A, 41, 43-43A, 48A Week 5: 122
2.3 Multiply, divide, and simplify rational numbers by using exponent rules.	Pretest: 2 Week 4: 122 Posttest: 166
2.4 Use the inverse relationship between raising to a power and extracting the root of a perfect square integer; for an integer that is not square, determine without a calculator the two integers between which its square root lies and explain why.	Week 6: 145

Algebra and Functions

Content Standards	<i>Summer Success Math-Teacher Edition Grade 7</i>
1.0 Students express quantitative relationships by using algebraic terminology, expressions, equations, inequalities, and graphs:	

Content Standards	<i>Summer Success Math-Teacher Edition Grade 7</i>
1.1 Use variables and appropriate operations to write an expression, an equation, an inequality, or a system of equations or inequalities that represents a verbal description (e.g., three less than a number, half as large as area A).	Week 1: 12A, 20-20A, 24A, 27-28 Week 2: 40A, 41, 44-44A, 44B-44C, 45, 47, 48A Week 3: 51-52, 60A, 68-68A, 69, 71-72 Week 4: 78C, 79, 92-92A Week 5: 102C, 103, 104, 108A, 109, 112A, 113, 120A, 121, 123-124 Week 6: 129-130, 132A-132B, 133-134, 136A-136B, 137, 139-139A, 140B-140C, 144C, 146
1.2 Use the correct order of operations to evaluate algebraic expressions such as $3(2x + 5)$.	Week 6: 132A-132B, 133, 146
1.3 Simplify numerical expressions by applying properties of rational numbers (e.g., identity, inverse, distributive, associative, commutative) and justify the process used.	Week 1: 12A Week 3: 66, 68B, 69-70 Week 4: 89-90 Week 5: 108A, 109, 113 Week 6: 132A
1.4 Use algebraic terminology (e.g., variable, equation, term, coefficient, inequality, expression, constant) correctly.	Week 3: 68C The opportunity to also address this objective is available throughout the text.
1.5 Represent quantitative relationships graphically and interpret the meaning of a specific part of the graph in the situation represented by the graph.	Week 3: 54D, 56-58, 60B, 62, 66, 70 Week 6: 134
2.0 Students interpret and evaluate expressions involving integer powers and simple roots:	
2.1 Interpret positive whole-number powers as repeated multiplication and negative whole-number powers as repeated division or multiplication by the multiplicative inverse. Simplify and evaluate expressions that include exponents.	Pretest: 2 Week 1: 6E, 9, 12A, 12, 14A, 15, 17-18, 20A, 21 Week 2: 28C, 29, 37, 41, 43 Week 3: 56A, 64A, 66A Week 4: 72C, 75, 78A, 81, 86A, 88A, 91-92 Week 5: 100A, 108A, 113-114 Week 6: 116C, 122A, 124A Posttest: 166
2.2 Multiply and divide monomials; extend the process of taking powers and extracting roots to monomials when the latter results in a monomial with an integer exponent.	Week 4: 88A-88B, 89 Week 5: 102D Week 6: 132A, 133, 136A, 137, 140B-140C, 141
3.0 Students graph and interpret linear and some nonlinear functions:	

Content Standards	<i>Summer Success Math-Teacher Edition Grade 7</i>
3.3 Graph linear functions, noting that the vertical change (change in y-value) per unit of horizontal change (change in x-value) is always the same and know that the ratio (“rise over run”) is called the slope of a graph.	Week 5: 102C, 103, 108A, 109, 112A, 113, 116B, 117 Week 6: 143-144
3.4 Plot the values of quantities whose ratios are always the same (e.g., cost to the number of an item feet to inches, circumference to diameter of a circle). Fit a line to the plot and understand that the slope of the line equals the quantities.	Week 5: 102C
4.0 Students solve simple linear equations and inequalities over the rational numbers:	
4.1 Solve two-step linear equations and inequalities in one variable over the rational numbers, interpret the solution or solutions in the context from which they arose and verify the reasonableness of the results.	Week 5: 116B, 120A, 121
4.2 Solve multi-step problems involving rate, average speed, distance, and time or a direct variation.	Week 2: 32, 49

Measurement and Geometry

Content Standard	<i>Summer Success Math-Teacher Edition Grade 7</i>
1.0 Students choose appropriate units of measure and use ratios to convert within and between measurement systems to solve problems:	
1.1 Compare weights, capacities, geometric measures, times, and temperatures within and between measurement systems (e.g., miles per hour and feet per second, cubic inches to cubic centimeters).	Week 1: 6E, 12B, 20C, 22
1.2 Construct and read drawings and models made to scale.	Week 1: 6E, 7, 12B, 20C, 22 Week 5: 107-108
1.3 Use measures expressed as rates (e.g., speed, density) and measures expressed as products (e.g., person-days) to solve problems; check the units of the solutions; and use dimensional analysis to check the reasonableness of the answer.	Week 2: 32, 49

Content Standard	<i>Summer Success Math-Teacher Edition Grade 7</i>
<p>2.0 Students compute the perimeter, area, and volume of common geometric objects and use the results to find measures of less common objects. They know how perimeter, area, and volume are affected by changes of scale.</p>	
<p>2.1 Use formulas routinely for finding the perimeter and area of basic two-dimensional figures and the surface area and volume of basic three-dimensional figures, including rectangles, parallelograms, trapezoids, squares, triangles, circles, prisms, and cylinders.</p>	<p>Week 1: 6E, 7, 12B, 13, 20C, 22, 27-28 Week 2: 36B, 44C, 46, 47-48 Week 3: 54D, 60B, 64B, 68C, 72B Week 4: 78D, 84B, 88B, 89, 92C, 96A, 97 Week 5: 102D, 105-106, 108B, 112A, 114, 116C, 122 Week 6: 126D, 128, 129-130, 132B, 134, 140C, 142, 143-144, 144C, 146</p>
<p>2.4 Relate the changes in measurement with a change of scale to the units used (e.g., square inches, cubic feet) and to conversions between units (1 square foot = 144 square inches or [1 ft_] = [144 in_], 1 cubic inch is approximately 16.38 cubic centimeters or [1 in_] = [16.38 in_]).</p>	<p>Week 1: 6E, 12B, 20C, 22 Week 5: 107-108</p>
<p>3.0 Students know the Pythagorean theorem and deepen their understanding of plane and solid geometric shapes by constructing figures that meet given conditions and by identifying attributes of figures:</p>	
<p>3.1 Identify and construct basic elements of geometric figures (e.g., altitudes, mid-points, diagonals, angle bisectors, and perpendicular bisectors; central angles, radii, diameters, and chords of circles) by using a compass and straightedge.</p>	<p>Week 2: 36C Week 3: 59-60 Week 4: 88B, 89, 92B Week 6: 126B, 132B, 136B</p>
<p>3.2 Understand and use coordinate graphs to plot simple figures, determine lengths and areas related to them, and determine their image under translations and reflections.</p>	<p>Pretest: 4 Week 3: 54D, 60B, 62, 64B, 66, 68C, 70, 72B, 74 Week 4: 78D, 84B, 85, 96B, 97 Week 5: 105-106 Posttest: 168</p>
<p>3.4 Demonstrate an understanding of conditions that indicate two geometrical figures are congruent and what congruence means about the relationships between the sides and angles of the two figures.</p>	<p>Week 1: 12B, 20C Week 2: 30D, 36B, 40B Week 3: 77-78</p>
<p>3.5 Construct two-dimensional patterns for three-dimensional models, such as cylinders, prisms, and cones.</p>	<p>Week 5: 108B, 116C Week 6: 129-130</p>

Statistics, Data Analysis, and Probability

Content Standard	<i>Summer Success Math-Teacher Edition Grade 7</i>
1.0 Students collect, organize, and represent data sets that have one or more variables and identify relationships among variables within a data set by hand and through the use of an electronic spreadsheet software program:	
1.1 Know various forms of display for data sets, including a stem-and-leaf plot or box-and-whisker plot; use the forms to display a single set of data or to compare two sets of data.	Pretest: 5 Week 1: 11-12, 15-16 Week 2: 35-36, 39-40 Week 3: 59-60, 63-64 Week 4: 83-84, 87-88 Week 5: 107-108, 111-112 Week 6: 131-132, 135-136 Posttest: 169
1.2 Represent two numerical variables on a scatterplot and informally describe how that data points are distributed and any apparent relationship that exists between the two variables (e.g., between time spent on homework and grade level).	Pretest: 5 Week 2: 39-40 Week 5: 107-108, 111-112 Posttest: 169
1.3 Understand the meaning of, and be able to compute, the minimum, the lower quartile, the median, the upper quartile, and the maximum of a data set.	Week 1: 11-12 Week 2: 35-36, 39-40

Mathematical Reasoning

Content Standard	<i>Summer Success Math-Teacher Edition Grade 7</i>
1.0 Students make decisions about how to approach problems:	
1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, sequencing and prioritizing information, and observing patterns.	The opportunity to address this objective is available on the following pages: Pretest: 6 Week 1: 9-10, 19-19A, 20-20A, 23-24, 27-28 Week 2: 33-34, 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148 Posttest: 170

Content Standard	<i>Summer Success Math-Teacher Edition Grade 7</i>
1.2 Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.	The opportunity to address this objective is available on the following pages: Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
2.0 Students use strategies, skills, and concepts in finding solutions:	
2.2 Apply strategies and results from simpler problems to more complex problems.	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
2.4 Make and test conjectures by using both inductive and deductive reasoning.	The opportunity to address this objective is available on the following pages: Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
2.5 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	Pretest: 6 Week 1: 12A, 20-20A, 20B, 23-24, 27-28 Week 2: 32, 36A, 40A, 44-44A, 47-48, 48A, 49, 51-52 Week 3: 54C, 68-68A, 68B, 71-72, 75-76 Week 4: 78C, 92-92A, 95-96, 96A, 99-100 Week 5: 102C, 104, 108A, 110, 116-116A, 116B, 118, 119-120, 122, 123-124 Week 6: 126, 132A, 136A, 137, 140-140A, 143-144, 147-148 Posttest: 170
2.6 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.	Pretest: 6 Week 1: 12A, 20-20A, 20B, 23-24, 27-28 Week 2: 32, 36A, 40A, 44-44A, 47-48, 48A, 49, 51-52 Week 3: 54C, 68-68A, 68B, 71-72, 75-76 Week 4: 78C, 92-92A, 95-96, 96A, 99-100 Week 5: 102C, 104, 108A, 110, 116-116A, 116B, 118, 119-120, 122, 123-124 Week 6: 126, 132A, 136A, 137, 140-140A, 143-144, 147-148 Posttest: 170

Content Standard	<i>Summer Success Math-Teacher Edition Grade 7</i>
2.8 Make precise calculations and check the validity of the results from the context of the problem.	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
3.0 Students determine a solutions is complete and move beyond a particular problem by generalizing to other situations:	
3.1 Evaluate the reasonableness of the solution in the context of the original situation.	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
3.2 Note the method if deriving the solution and demonstrate a conceptual understanding if the derivation by solving similar problems.	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148
3.3 Develop generalizations of the results obtained and apply them in other circumstances.	Week 1: 20-20A, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148



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Grade 8
correlated to
California Standards MAPS for Algebra Readiness Program
Part A

Part A - Grade 7 Standards

Number Sense

Table with 2 columns: Standard and Program Topic, Summer Success Math-Teacher Edition Grade 8. Rows include 1.2-Topic 4, 1.3-Topic 4, and 1.5-Topic 4.

Standard and Program Topic	Summer Success Math-Teacher Edition Grade 8
2.1-Topic 4 Understand negative whole-number exponents. Multiply and divide expressions involving exponents with a common base.	Week 2: 40AA, 41, 44B, 45-46, 48B-49, 54 Week 3: 69, 73-74 Week 4: 88A, 89-90

Algebra and Functions

Standard and Program Topic	Summer Success Math-Teacher Edition Grade 8
1.1-Topic 6 Use variables and appropriate operations to write an expression, an equation, an inequality, or a system of equations or inequalities that represents a verbal description (e.g., three less than a number, half as large as area A).	Pretest: 3 Week 1: 20, 20B, 23-24, 25, 27-28 Week 2: 30C, 44-44A, 48A, 54 Week 3: 68C Week 4: 88A, 89, 90, 96A, 97-98 Week 5: 103-104, 105-106, 108A, 112A, 113, 115-115A, 116-116A, 117, 119-120, 121, 123-126 Week 6: 126C, 136B-137, 140B-140C, 141-145, 147-148 Posttest: 167
1.3-Topic 6 Simplify numerical expressions by applying properties of rational numbers (e.g., identity, inverse, distributive, associative, commutative) and justify the process used.	The opportunity to address this objective is available on the following pages: Week 1: 20B Week 2: 40A, 44B, 45-46, 48A, 49, 54 Week 3: 54C, 64A, 68-68A, 69, 71-72, 73-74 Week 4: 85, 88A, 89-90 Week 5: 115-115A, 116B-116C, 117 Week 6: 136A, 137-138
2.1-Topic 4 Interpret positive whole-number powers as repeated multiplication and negative whole-number powers as repeated division or multiplication by the multiplicative inverse. Simplify and evaluate expressions that include exponents.	Pretest: 2 Week 2: 30C-30D, 36A-36B, 37-38, 40A, 41, 44-44B, 45-46, 48A, 49, 53-54 Week 3: 69, 73-74 Week 4: 88A, 89-90, 92B Week 5: 116B-116C Week 6: 132A-132B Posttest: 166
3.3-Topic 8 Graph linear functions, noting that the vertical change (change in y- value) per unit of horizontal change (change in x- value) is always the same and know that the ratio (“rise over run”) is called the slope of the graph.	Pretest: 3 Week 5: 102C, 103, 108A, 109, 112A, 113, 120A, 121 Week 6: 128, 136A, 137, 139-139A, 144A, 145 Posttest: 167
3.4-Topic 8 Plot the values of quantities whose ratios are always the same (e.g., cost to the number of an item, feet to inches, circumference to diameter of a circle). Fit a line to the plot and understand that the slope of the line equals the quantities.	Week 5: 102C, 108A

Standard and Program Topic	<i>Summer Success Math-Teacher Edition Grade 8</i>
4.1-Topic 6 Solve two-step linear equations and inequalities in one variable over the rational numbers, interpret the solution or solutions in the context from which they arose, and verify the reasonableness of the results.	Week 1: 20B Week 5: 102C, 103, 108A, 116-116A, 120B-121, 123-124 Week 6: 139-139A, 140B, 141, 147-148
4.2-Topic 6 Solve multi-step problems involving rate, average speed, distance, and time or a direct variation.	Week 2: 32 Week 3: 56 Week 4: 88A Week 5: 104, 114, 116B, 125-126 Week 6: 140-140A, 146

M e a s u r e m e n t a n d G e o m e t r y

Standard and Program Topic	<i>Summer Success Math-Teacher Edition Grade 8</i>
1.3-Topic 8 Use measures expressed as rates (e.g., speed, density) and measures expressed as products (e.g., person-days) to solve problems; check the units of the solutions; and use dimensional analysis to check the reasonableness of the results.	Week 2: 32 Week 3: 56 Week 4: 88A Week 5: 104, 114, 116B, 125-126 Week 6: 140-140A, 146
3.3-Topic 7 Know and understand the Pythagorean theorem and its converse and use it to find the length of the missing side of a right triangle and the lengths of other line segments and, in some situations, empirically verify the Pythagorean theorem by direct measurement.	Week 1: 20C Week 4: 78C-78D, 79, 84B, 95-98 Week 5: 122

M a t h e m a t i c a l R e a s o n i n g

Standard and Program Topic	<i>Summer Success Math-Teacher Edition Grade 8</i>
1.0 Students make decisions about how to approach problems:	
1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, sequencing and prioritizing information, and observing patterns.	The opportunity to address this objective is available on the following pages: Week 1: 9-10, 20-20A, 23-24, 27-28 Week 2: 40B, 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 86, 92-92A, 95-96A, 99-100 Week 5: 104, 116-116A, 120B, 123-124 Week 6: 140-140B, 141, 143-144A

Standard and Program Topic	<i>Summer Success Math-Teacher Edition Grade 8</i>
<p>1.2</p> <p>Formulate and justify mathematical conjectures based on a general description of the mathematical question or problem posed.</p>	<p>The opportunity to address this objective is available on the following pages: Week 1: 20-20A, 23-24, 27-28 Week 2: 42, 47-48, 51-52, 53 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96A, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 133, 140-140A, 143-144, 147-148</p>
<p>2.0</p> <p>Students use strategies, skills, and concepts in finding solutions:</p>	
<p>2.1</p> <p>Use estimation to verify the reasonableness of calculated results.</p>	<p>The opportunity to address this objective is available on the following pages: Week 1: 9-10 Week 4: 91-91A Week 5: 105-106</p>
<p>2.2</p> <p>Apply strategies and results from simpler problems to more complex problems.</p>	<p>Week 1: 20-21, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 141, 143-144, 147-148</p>
<p>2.4</p> <p>Make and test conjectures by using both inductive and deductive reasoning.</p>	<p>The opportunity to address this objective is available on the following pages: Week 1: 20-21, 23-24, 27-28 Week 2: 42, 47-48, 51-52, 53 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96A, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 133, 140-140A, 143-144, 147-148</p>
<p>2.5</p> <p>Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.</p>	<p>Pretest: 6 Week 1: 16A, 20-21, 23-24, 27-28 Week 2: 31, 32, 44-44A, 47-48, 51-52 Week 3: 55, 56, 68-68A, 71-72, 75-76 Week 4: 85, 86, 89, 92-92A, 93, 94, 95-96, 99-100 Week 5: 104, 114, 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 144A, 146, 147-148 Posttest: 170</p>

Standard and Program Topic	<i>Summer Success Math-Teacher Edition Grade 8</i>
<p>2.6</p> <p>Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.</p>	<p>Pretest: 6 Week 1: 16A, 20-21, 23-24, 27-28 Week 2: 31, 32, 44-44A, 47-48, 51-52 Week 3: 55, 56, 68-68A, 71-72, 75-76 Week 4: 85, 86, 89, 92-92A, 93, 94, 95-96, 99-100 Week 5: 104, 114, 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 144A, 146, 147-148 Posttest: 170</p>
<p>2.8</p> <p>Make precise calculations and check the validity of the results from the context of the problem.</p>	<p>The opportunity to address this objective is available on the following pages: Week 1: 20-21, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 55-56, 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96A, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148</p>
<p>3.0</p> <p>Students determine a solution is complete and move beyond a particular problem by generalizing to other situations:</p>	
<p>3.1</p> <p>Evaluate the reasonableness of the solution in the context of the original situation.</p>	<p>Week 1: 9-10 Week 2: 40B, 44-44A, 47-48, 51-52, 71-72 Week 3: 86, 92-92A, 95-96, 99-100 Week 4: 104, 120B</p>
<p>3.2</p> <p>Note the method of deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems.</p>	<p>Week 1: 20-21, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148</p>
<p>3.3</p> <p>Develop generalizations of the results obtained and the strategies used and apply them to new problem situations.</p>	<p>Week 1: 20-21, 23-24, 27-28 Week 2: 44-44A, 47-48, 51-52 Week 3: 68-68A, 71-72, 75-76 Week 4: 92-92A, 95-96, 99-100 Week 5: 116-116A, 119-120, 123-124 Week 6: 140-140A, 143-144, 147-148</p>

Part A - Algebra I

Standard and Program Topic	Summer Success Math-Teacher Edition Grade 8
<p>2.0-Topic 9</p> <p>Students understand and use such operations as taking the opposite, finding the reciprocal, taking a root, and raising to a fractional power. They understand and use the rules of exponents [<i>excluding fractional powers</i>].</p>	<p>Pretest: 1, 2 Week 2: 30C-30D, 31, 36A, 40A, 41, 44B, 45-46, 48B-49, 53-54 Week 3: 55, 61, 65, 68B, 69, 77-78 Week 4: 78C-80, 84A, 85, 86, 88A, 89-90, 92-92B, 93-94, 99-102 Week 6: 132A Posttest: 165, 166</p>
<p>4.0-Topic 9</p> <p>Students simplify expressions before solving linear equations and inequalities in one variable, such as $3(2x-5) + 4(x-2) = 12$ [<i>excluding inequalities</i>].</p>	<p>Week 1: 20B, 21, 27-28 Week 2: 49 Week 3: 54C Week 4: 88A, 89, 97, 98 Week 5: 102C, 116,-B-117</p>
<p>5.0-Topic 9</p> <p>Students solve multi-step problems, including word problems, involving linear equations and linear inequalities in one variable and provide justification for each step [<i>excluding inequalities</i>].</p>	<p>The opportunity to address this objective is available on the following pages: Week 1: 20B Week 5: 102C, 103, 108A, 120B-121 Week 6: 137-137A</p>



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