Correlation of *Moving with Math®-by-Topic Level A* Grade 2 To California Standards

		Student Book	Skill Builders
	NUMBER SENSE		
1.0	Students understand the relationship between numbers, quantities, and place value in whole numbers up to 1,000:	**AI:** 4-51	1-11, 2-1 to 2-3, 3-1, 3-2, 4-1 to 4-5, 5-1, 5-2, 6-1 to 6-4, 7-1, 7-2, 8-1, 8-2, 9-1 to 9-5
1.1	Count, read, and write whole numbers to 1,000 and identify the place value for each digit.	**AI:** 4-51, 74, 76	4-1 to 4-5, 5-1, 5-2, 7-1, 7-2, 8-1, 8-2, 9-1 to 9-5
1.2	Use words, models, and expanded forms (e.g., 45· 4 tens + 5 ones) to represent numbers (10 1,000).	**AI:** 21-24, 30, 31, 38-49	4-1 to 4-5, 5-1 to 5-4, 7-1, 7-2, 8-1, 8-2
1.3	Order and compare whole numbers to 1,000 by using the symbols <, =, >.	**AI:** 9, 10, 12, 13, 32-37	2-1 to 2-3, 3-1, 3-2, 6-1 to 6-3
2.0	Students estimate, calculate, and solve problems involving addition and subtraction of two- and three-digit numbers:	**AII:** 37-61	20-1, 21-1, 22-1 to 22-3, 23-1, 24-1 to 24-3, 25-1 to 25-3, 26-1 to 26-6, 27-1 to 27-3, 28-1 to 28-3, 29-1 to 29-6
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.	**AIII:** 17, 18, 31	16-2, 16-8
2.2	Find the sum or difference of two whole numbers up to three digits long.	**AII:** 68, 69	
2.3	use mental arithmetic to find the sum or difference of two two-digit numbers.		
3.0	Students model and solve simple problems involving multiplication and division:	**AII:** 71-75	30-1, 31-1
3.1	Use repeated addition, arrays, and counting by multiples to do multiplication.	**AII:** 71-73	30-1

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3.2	Use repeated subtraction, equal sharing, and forming equal groups with remainders to do division.	**AII:** 74, 75	31-1
3.3	Know the multiplication tables of 2s, 5s, and 10s (to "times 10") and commit them to memory.	**AII:** 71, 72	30-1
4.0	Students understand that fractions and decimals may refer to parts of a set and parts of a whole:	**AIII:** 28-37	41-1, 42-1 to 42-4
4.1	Recognize, name, and compare unit fractions from 1/12 to 1/2.	**AIII:** 28-37	41-1, 42-1 to 42-4
4.2	Students understand the relationship between whole numbers, simple fractions, and decimals:		
4.3	Know that when all fractional parts are included, such as four-fourths, the results is equal to the whole and to one.	**AIII:** 30-34	
5.0	Students model and solve problems by representing, adding, and subtracting amounts of money:	**AIII:** 68-73	
5.1	Solve problems using combinations of coins and bills.	**AIII:** 39-45	46-1, 46-2, 47-1, 47-2, 48-1, 48-2
5.2	Know and use the decimal notation and the dollar and cent symbols for money.	**AII:** 43	
6.0	Students use estimation strategies in computation and problem solving that involve numbers that use the ones, tens, hundreds, and thousands places:	**AII:** 69 **AIII:** 74	
6.1	Recognize when an estimate is reasonable in measurements (e.g., closest inch).	**AIII:** 53-57	
	ALGEBRA AND FUNCTIONS		
1.0	Students model, represent, and interpret number relationships to create and solve problems involving addition and subtraction:	**AII:** 64-69	27-1 to 27-3, 28-2, 28-3, 29-1 to 29-6
1.1	Use the commutative and associative rules to simplify mental calculations and to check results.	**AII:** 10, 25, 29	17-1
1.2	Relate problem situations to number sentences involving addition and subtraction.	**AII:** 64-69	28-2, 28-3, 29-1 to 29-6
1.3	Solve addition and subtraction problems by using data from simple charts, picture graphs, and number sentences.	**AII:** 70 **AIII:** 76, 77	50-7
	MEASUREMENT AND GEOMETRY		

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1.0	Students understand that measurement is accomplished by identifying a unit of measure, iterating (repeating) that unit, and comparing it to the time to be measured:		All: 53, 54	50-1 to 50-3
1.1	Measure the length of objects by iterating (repeating) a nonstandard or standard unit.		All: 53, 54	50-1 to 50-3
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.		AllI: 54, 58	
1.3	Measure the length of an object to the nearest inch and/or centimeter.		AllI: 55-57	50-1, 50-2
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).			
1.5	Determine the duration of intervals of time in hours (e.g., 11:00 a.m. to 4:00 p.m.)			
2.0	**Students identify and describe the attributes of common figures in the plane and of common objects in space:**		AllI: 10-27, 65, 66	37-1, 38-1, 39-1, 40-1, 43-1
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 daces, edges, and vertices.		AllI: 12-27	37-1, 38-1, 39-1, 40-1, 43-1, 44-1, 45-1 to 45-3
2.2	Put shapes together and take them apart to form other shapes (e.g., two congruent right triangles can be arranged to form a rectangle.)		AllI: 67	45-1 to 45-3
	STATISTICS, DATA ANALYSIS, AND PROBABILITY			
1.0	**Students collect numerical data and record, organize, display, and interpret the data on bar graphs and other representations:**		AllI: 77, 78	50-4, 50-6
1.1	Record numerical data in systematic ways, keeping track of what has been counted.		AllI: 75	50-6, 50-8
1.2	Represent the same data set in more than one way (e.g., bar graphs and charts with tallies).		AllI: 77, 78	50-4, 50-6
1.3	Identify features of data sets (range and mode).		AllI: 75-77	
1.4	Ask and answer simple questions related to data representations.		AllI: 76, 77	50-7
2.0	**Students demonstrate an understanding of patterns and how patterns grow and describe them in general ways:**		AllI: 20-25	14-1 , 14-2, 43-1, 44-1
2.1	Recognize, describe, and extend patterns and determine a next term in linear patterns.		63-67, 72, 73	14-1, 14-2

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2.2	Solve problems involving simple number patterns.		
	MATHEMATICAL REASONING		
1.0	Students make decisions about how to set up a problem:	**AII:** 4, 5, 12, 13, 62-68, 70	
1.1	Determine the approach, materials, and strategies to be used.	**AI:** 70-72 **AII:** 29	26-6
1.2	Use tools, such as manipulatives or sketches, to model problems.	**AI:** 11, 16-19, 21, 27, 37 **AII:** 4-10, 12-18, 24-27, 41-43, 47-59, 70-77	15-1 to 15-5, 16-1 to 16-9, 17-1, 18-1 to 18-7, 19-1 to 19-7
2.0	Students solve problems and justify their reasoning:	**AII:** 62-70 **AIII:** 68-73	
2.1	Defend the reasoning used and justify the procedures selected.	**AII:** 32	
2.2	Make precise calculations and check the validity of the results in the context of the problem.	**AII:** 69	
3.0	Students note connections between one problem and another.	**AII:** 62-66	
	AI: *Numeration*		
	AII: *Addition & Subtraction*		
	AIII: *Fractions, Geometry & Measurement*		