Symphony Math® Correlation

New Jersey Core Curriculum Content Standards

New Jersey Core Curriculum Content Standards					Symphony Math		
Grade	Standard	Strand	CPI#	CPI	Module	Activity	Levels
K	Number & Numerical Operations	Number Sense	4.1.K.A.2	Recognize and name numerals from 0 to at least 31, and write numerals up to 10.	Quantity	Symbols	1-6
K	Number & Numerical Operations	Number Sense	4.1.K.A.3	Recognize zero as the count of “no objects.”	Quantity	Manipulatives & Symbols	1-6
K	Number & Numerical Operations	Number Sense	4.1.K.A.4	Recognize up to six objects without counting.	Quantity	Manipulatives	1-6
K	Number & Numerical Operations	Number Sense	4.1.K.A.6	Find the number that is one more than or one, less than any whole number up to 10.	Addition & Subtraction	Symbols	1-2
K	Number & Numerical Operations	Number Sense	4.1.K.A.7	Use correctly the words one/many, none/some/all, more/less, and most/least.	Quantity	Auditory Sentences	1-6
K	Number & Numerical Operations	Numerical Operations	4.1.K.B.1	Use part-part-whole relationships to compose and decompose numbers through 10.	Addition & Subtraction	Manipulatives	1-2
K	Number & Numerical Operations	Numerical Operations	4.1.K.B.2	Use numbers to describe how many objects will be needed for a second set, when given the first part of the whole.	Addition & Subtraction	Manipulatives & Symbols	1-2
K	Number & Numerical Operations	Numerical Operations	4.1.K.B.3	“Count on” to solve addition problems with sums through 10.	Addition & Subtraction	Symbols	1
K	Number & Numerical Operations	Numerical Operations	4.1.K.B.4	Describe addition and subtraction situations (for numbers less than 10).	Addition & Subtraction	Symbols	13
K	Number & Numerical Operations	Measurement	4.2.K.B.1	Make direct comparisons of length, capacity, weight and temperature of objects and identify which object is shorter, longer, taller lighter, heavier, warmer, cooler and holds more.	Quantity	Manipulatives	1-6

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K	Core Mathematical Processes	N/A	4.5.K 1	Identify the question(s) asked in a problem.	All	All	All
K	Core Mathematical Processes	N/A	4.5.K 2	Identify the given information that can be used to solve a problem.	All	All	All
K	Core Mathematical Processes	N/A	4.5.K 3	Recognize when additional information is required to solve a problem.	All	All	All
K	Core Mathematical Processes	N/A	4.5.K 4	Select from a variety of problem-solving strategies and use one or more strategies to solve a problem.	All	All	All
K	Core Mathematical Processes	N/A	4.5.K 5	Answer the question(s) asked in a problem.	All	All	All
K	Core Mathematical Processes	N/A	4.5.K 6	Describe how a problem was solved.	All	All	All
K	Core Mathematical Processes	N/A	4.5.K 7	Determine whether a solution to a problem is reasonable.	All	All	All
K	Core Mathematical Processes	N/A	4.5.K 8	Use technology to gather, analyze and communicate mathematical information.	All	All	All
1	Number & Numerical Operations	Number Sense	4.1.1.A.1	Represent equivalence relationships of sets of objects by writing number sentences using the “=” symbol.	Quantity	Manipulatives & Symbols	1
1	Number & Numerical Operations	Number Sense	4.1.1.A.2	Count, read and write whole numbers to 100 by ones and tens.	Place Value	Symbols	1-8, 13-14
1	Number & Numerical Operations	Number Sense	4.1.1.A.3	Count and group objects in ones and tens.	Place Value	Manipulatives	1-8, 13-14
1	Number & Numerical Operations	Number Sense	4.1.1.A.4	Compare and order whole numbers to 100 and identify and name ordinals through 31st.	Place Value	Symbols	15

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1	Number & Numerical Operations	Number Sense	4.1.1.A.5	Identify the number of tens and ones in numbers less than 100.	Place Value	Symbols	1-8, 13-14
1	Number & Numerical Operations	Number Sense	4.1.1.A.6	Name the number that is one more or one less than any number up to 100.	Place Value	Symbols	1-8, 13-14
1	Number & Numerical Operations	Numerical Operations	4.1.1.B.1	Demonstrate the meaning of addition (putting together, increasing) using objects.	Addition & Subtraction	Manipulatives	15
1	Number & Numerical Operations	Numerical Operations	4.1.1.B.2	Demonstrate the meaning of subtraction (taking away, comparing and finding differences) using objects.	Addition & Subtraction	Manipulatives	3,8
1	Number & Numerical Operations	Numerical Operations	4.1.1.B.3	Show equivalent forms of the same number (up to 20) using objects, diagrams and numbers.	Addition & Subtraction	All	7,10
1	Number & Numerical Operations	Numerical Operations	4.1.1.B.4	Use the inverse operation relationship between addition and subtraction and demonstrate mastery of addition facts (for totals up to 20) and the corresponding subtraction facts.	Addition & Subtraction	Symbols	7,10
1	Number & Numerical Operations	Numerical Operations	4.1.1.B.5	Use +, -, and = to write number sentences.	Addition & Subtraction	Auditory Sentences	1-10
1	Number & Numerical Operations	Numerical Operations	4.1.1.B.6	Use the commutative, associative and zero properties of addition.	Addition & Subtraction	Symbols	1-10
1	Geometry & Measurement	Measurement	4.2.1.B.5	Compare and order objects according to area, capacity, weight, and temperature, using direct comparison or a nonstandard unit.	Addition & Subtraction	Manipulatives	1-10
1	Patterns & Algebra	Patterns	4.3.1.A.1	Create and extend number patterns using addition.	Addition & Subtraction	Symbols	1-10
1	Patterns & Algebra	Patterns	4.3.1.A.2	Write and solve number sentences from problem situations involving addition and subtraction using symbols (+, -, =).	Addition & Subtraction	Word Problems	1-10
1	Patterns & Algebra	Patterns	4.3.1.A.3	Create word problems that match given number sentence situations involving addition and subtraction.	Addition & Subtraction	Word Problems	1-10

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1	Patterns & Algebra	Patterns	4.3.1.A.4	Demonstrate the inverse operation relationship between addition and subtraction by undoing an addition problem with subtraction and vice-versa.	Addition & Subtraction	Symbols	7,10
1	Patterns & Algebra	Patterns	4.3.1.A.6	Relate the number 0 to adding or subtraction nothing.	Addition & Subtraction	Symbols	1,3
1	Core Mathematical Processes	N/A	4.5.1 1	Identify the question(s) asked in a problem.	Addition & Subtraction	Word Problems	1-10
1	Core Mathematical Processes	N/A	4.5.1 2	Identify the given information that can be used to solve a problem.	All	All	All
1	Core Mathematical Processes	N/A	4.5.1 3	Recognize when additional information is required to solve a problem.	All	All	All
1	Core Mathematical Processes	N/A	4.5.1 4	Select from a variety of problem-solving strategies and use one or more strategies to solve a problem.	All	All	All
1	Core Mathematical Processes	N/A	4.5.1 5	Answer the question(s) asked in a problem.	All	All	All
1	Core Mathematical Processes	N/A	4.5.1 6	Describe how a problem was solved.	All	All	All
1	Core Mathematical Processes	N/A	4.5.1 7	Determine whether a solution to a problem is reasonable.	All	All	All
1	Core Mathematical Processes	N/A	4.5.1 8	Use technology to gather, analyze and communicate mathematical information.	All	All	All
2	Number & Numerical Operations	Number Sense	4.1.2.A.1	Use the symbols < and > to compare numbers.	Place Value	Symbols	15,18
2	Number & Numerical Operations	Number Sense	4.1.2.A.2	Count by ones, twos, fives, and tens to 100.	Place Value	Symbols	1-8, 13-14

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Grade	Standard	Strand	CPI#	CPI	Module	Activity	Levels
2	Number & Numerical Operations	Number Sense	4.1.2.A.3	Identify numbers up to 999 in various combinations of hundreds, tens, and ones.	Place Value	Symbols	16,17
2	Number & Numerical Operations	Number Sense	4.1.2.A.4	Name the number that is ten more or ten less than any number up to 100.	Place Value	Symbols	9-11
2	Number & Numerical Operations	Number Sense	4.1.2.A.5	Compare and order whole numbers through hundreds.	Place Value	Symbols	18
2	Number & Numerical Operations	Numerical Operations	4.1.2.B.1	Model addition of numbers less than 100 with objects and pictures.	Multi-Digit Addition & Subtraction	Manipulatives	1,9
2	Number & Numerical Operations	Numerical Operations	4.1.2.B.2	Add two whole numbers with and without regrouping.	Multi-Digit Addition & Subtraction	Symbols	1,5,9, 13
2	Number & Numerical Operations	Numerical Operations	4.1.2.B.3	Subtract two whole numbers less than 100 without regrouping.	Multi-Digit Addition & Subtraction	Symbols	2,11
2	Number & Numerical Operations	Numerical Operations	4.1.2.B.5	Use mental arithmetic to add and subtract 0, 1, 2, 3, 4, 5, or 10 with numbers less than 100.	Multi-Digit Addition & Subtraction	Symbols	1-16
2	Number & Numerical Operations	Numerical Operations	4.1.2.B.6	Develop fluency with efficient procedures, including standard algorithms, for adding and subtracting whole numbers, understand why they work and use them to solve problems.	Multi-Digit Addition & Subtraction	Symbols	1-16
2	Number & Numerical Operations	Numerical Operations	4.1.2.B.7	Select and apply appropriate methods to estimate sums and differences or calculate them mentally, depending on the context and numbers involved.	Multi-Digit Addition & Subtraction	Symbols	1-16
2	Number & Numerical Operations	Functions & Relationships	4.3.2.B.1	Write and solve number sentences from problem situations involving addition and subtraction rules.	Multi-Digit Addition & Subtraction	Word Problems	1-16
2	Number & Numerical Operations	Functions & Relationships	4.3.2.B.2	Create word problems that match given number sentences involving addition and subtraction.	Multi-Digit Addition & Subtraction	Word Problems	1-16
2	Number & Numerical Operations	Functions & Relationships	4.3.2.B.3	Recognize and use the inverse operation relationship between addition and subtraction.	Multi-Digit Addition & Subtraction	Symbols	2,4,6,8

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2	Core Mathematical Processes	N/A	4.5.2 1	Identify the question(s) asked in a problem.	All	All	All
2	Core Mathematical Processes	N/A	4.5.2 2	Identify the given information that can be used to solve a problem.	All	All	All
2	Core Mathematical Processes	N/A	4.5.2 3	Recognize when additional information is required to solve a problem.	All	All	All
2	Core Mathematical Processes	N/A	4.5.2 4	Select from a variety of problem-solving strategies and use one or more strategies to solve a problem.	All	All	All
2	Core Mathematical Processes	N/A	4.5.2 5	Answer the question(s) asked in a problem.	All	All	All
2	Core Mathematical Processes	N/A	4.5.2 6	Describe how a problem was solved.	All	All	All
2	Core Mathematical Processes	N/A	4.5.2 7	Determine whether a solution to a problem is reasonable.	All	All	All
2	Core Mathematical Processes	N/A	4.5.2 8	Use technology to gather, analyze and communicate mathematical information.	All	All	All
3	Number & Numerical Operations	Number Sense	4.1.3.A.1	Count, read, and write whole numbers up to 99,999.	Place Value	Symbols	1-18
3	Number & Numerical Operations	Number Sense	4.1.3.A.2	Identify place value in whole numbers up to 99,999 and name the quantity that each digit represents.	Place Value	Symbols	1-18
3	Number & Numerical Operations	Number Sense	4.1.3.A.3	Use words, models, and expanded form to represent numbers up to 99,999.	Place Value	All	1-18
3	Number & Numerical Operations	Number Sense	4.1.3.A.4	Compare and order whole numbers through ten thousands using symbols (<, >, =).	Place Value	Symbols	1-18

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3	Number & Numerical Operations	Numerical Operations	4.1.3.B.1	Add and subtract whole numbers up to 1,000 with or without regrouping, using relevant properties of the number system.	Multi-Digit Addition & Subtraction	Symbols	1-24
3	Number & Numerical Operations	Numerical Operations	4.1.3.B.2	Represent the concept of multiplication as repeated addition.	Multiplication & Division	Manipulatives	1,8
3	Number & Numerical Operations	Numerical Operations	4.1.3.B.3	Use the commutative, associative and zero properties of multiplication.	Multiplication & Division	Symbols	1-14
3	Number & Numerical Operations	Numerical Operations	4.1.3.B.5	Represent the concept of division as repeated subtraction, equal sharing and forming develop meaning and problem solving strategies.	Multiplication & Division	Manipulatives	4,11
3	Number & Numerical Operations	Numerical Operations	4.1.3.B.6	Demonstrate mastery of multiplication facts for 2, 5, and 10 by instant recall.	Multiplication & Division	Symbols	1-14
3	Number & Numerical Operations	Numerical Operations	4.1.3.B.7	Recall patterns of multiplication facts in the development of instant recall.	Multiplication & Division	Symbols	1-14
3	Number & Numerical Operations	Numerical Operations	4.1.3.B.10	Use mental arithmetic to add and subtract numbers less than 100.	Multi-Digit Addition & Subtraction	Symbols	1-16
3	Patterns & Algebra	Patterns	4.3.3.A.3	Use expressions with variables (e.g., shape, blank, or letter) to represent numbers in a pattern.	All	All	All
3	Core Mathematical Processes	N/A	4.5.3 1	Determine the question(s) to be answered in a given problem situation.	All	All	All
3	Core Mathematical Processes	N/A	4.5.3 4	Determine whether a problem to be solved is similar to previously solved problems and identify possible strategies for solving the problem.	All	All	All
3	Core Mathematical Processes	N/A	4.5.3 5	Select and use one or more appropriate strategies to solve a problem.	All	All	All
3	Core Mathematical Processes	N/A	4.5.3 6	Represent a problem situation using words, numbers, pictures, physical objects, or symbols.	All	All	All
3	Core Mathematical Processes	N/A	4.5.3 11	Use technology to gather, analyze and communicate mathematical information.	All	All	All