

# Hands-On Standards Deluxe

Grades: Pre K, K, 1, 2

States: California Content Standards

Hands-On Standards, Deluxe Edition Kit, Grades 1-2: Algebra

Summary: This resource guide meets Grades 1-2 math curriculum standards by matching activities to instructional objectives with ready-to-use, full-color lesson plans organized by strand. Lessons use hands-on activities, incorporating manipulatives into instruction to build concrete understanding and connect concepts to students' growing background of real-world experiences. The Algebra section covers the following skills and concepts: even and odd number patterns; commutative property; associative property; skip-counting patterns; skip counting by 5s; identifying and extending patterns; identifying and extending a number pattern; identifying change; and finding missing addends and subtrahends. Click on the blue link above to view and read about the program components and manipulatives. (43043-3)

## California Content Standards Mathematics Grade: 1

CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	2.0.	Students demonstrate the meaning of addition and subtraction and use these operations to solve problems.
GRADE LEVEL EXPECTATION	2.4.	Count by 2s, 5s, and 10s to 100.
GRADE LEVEL EXPECTATION	2.5.	Show the meaning of addition (putting together, increasing) and subtraction (taking away, comparing, finding the difference).
CONTENT STANDARD	CA.AF.	Algebra and Functions
PERFORMANCE STANDARD	1.0.	Students use number sentences with operational symbols and expressions to solve problems.
GRADE LEVEL EXPECTATION	1.1.	Write and solve number sentences from problem situations that express relationships involving addition and subtraction.
CONTENT STANDARD	CA.SDAP.	Statistics, Data Analysis, and Probability
PERFORMANCE STANDARD	2.0.	Students sort objects and create and describe patterns by numbers, shapes, sizes, rhythms, or colors.
GRADE LEVEL EXPECTATION	2.1.	Describe, extend, and explain ways to get to a next element in simple repeating patterns (e.g., rhythmic, numeric, color, and shape).
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools, such as manipulatives or sketches, to model problems.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	2.0.	Students solve problems and justify their reasoning.
GRADE LEVEL EXPECTATION	2.1.	Explain the reasoning used and justify the procedures selected.

## Grade: 2

CONTENT STANDARD	CA.AF.	Algebra and Functions
PERFORMANCE STANDARD	1.0.	Students model, represent, and interpret number relationships to create and solve problems involving addition and subtraction.
GRADE LEVEL EXPECTATION	1.1.	Use the commutative and associative rules to simplify mental calculations and to check results.
GRADE LEVEL EXPECTATION	1.3.	Solve addition and subtraction problems by using data from simple charts, picture graphs, and number sentences.
CONTENT STANDARD	CA.SDAP.	Statistics, Data Analysis, and Probability

PERFORMANCE STANDARD	2.0.	Students demonstrate an understanding of patterns and how patterns grow and describe them in general ways.
GRADE LEVEL EXPECTATION	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).
GRADE LEVEL EXPECTATION	2.2.	Solve problems involving simple number patterns.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools, such as manipulatives or sketches, to model problems.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	2.0.	Students solve problems and justify their reasoning.
GRADE LEVEL EXPECTATION	2.1.	Defend the reasoning used and justify the procedures selected.

Hands-On Standards, Deluxe Edition Kit, Grades 1-2: Data Analysis and Probability Summary: This resource guide meets Grades 1-2 math curriculum standards by matching activities to instructional objectives with ready-to-use, full-color lesson plans organized by strand. Lessons use hands-on activities, incorporating manipulatives into instruction to build concrete understanding and connect concepts to students' growing background of real-world experiences. The Data Analysis and Probability section covers the following skills and concepts: bar graphs; pictographs; probability; likely outcomes; making predictions; and drawing conclusions. Click on the blue link above to view and read about the program components and manipulatives. (43043-5)

**California Content Standards  
Mathematics  
Grade: 1**

CONTENT STANDARD	CA.SDAP.	Statistics, Data Analysis, and Probability
PERFORMANCE STANDARD	1.0.	Students organize, represent, and compare data by category on simple graphs and charts.
GRADE LEVEL EXPECTATION	1.2.	Represent and compare data (e.g., largest, smallest, most often, least often) by using pictures, bar graphs, tally charts, and picture graphs.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools, such as manipulatives or sketches, to model problems.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	2.0.	Students solve problems and justify their reasoning.
GRADE LEVEL EXPECTATION	2.1.	Explain the reasoning used and justify the procedures selected.

**Grade: 2**

CONTENT STANDARD	CA.SDAP.	Statistics, Data Analysis, and Probability
PERFORMANCE STANDARD	1.0.	Students collect numerical data and record, organize, display, and interpret the data on bar graphs and other representations.
GRADE LEVEL EXPECTATION	1.1.	Record numerical data in systematic ways, keeping track of what has been counted.
GRADE LEVEL EXPECTATION	1.4.	Ask and answer simple questions related to data representations.

<b>CONTENT STANDARD</b>	<b>CA.MR.</b>	<b>Mathematical Reasoning</b>
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools, such as manipulatives or sketches, to model problems.
<b>CONTENT STANDARD</b>	<b>CA.MR.</b>	<b>Mathematical Reasoning</b>
PERFORMANCE STANDARD	2.0.	Students solve problems and justify their reasoning.
GRADE LEVEL EXPECTATION	2.1.	Defend the reasoning used and justify the procedures selected.

### Hands-On Standards, Deluxe Edition Kit, Grades 1-2: Geometry

Summary: This resource guide meets Grades 1-2 math curriculum standards by matching activities to instructional objectives with ready-to-use, full-color lesson plans organized by strand. Lessons use hands-on activities, incorporating manipulatives into instruction to build concrete understanding and connect concepts to students' growing background of real-world experiences. The Geometry section covers the following skills and concepts: identifying plane and congruent shapes; building cubes and prisms; symmetry; slides, flips, and turns; combining shapes; building shapes; and tangram puzzles. Click on the blue link above to view and read about the program components and manipulatives. (43043-2)

### California Content Standards Mathematics Grade: 1

<b>CONTENT STANDARD</b>	<b>CA.MG.</b>	<b>Measurement and Geometry</b>
PERFORMANCE STANDARD	2.0.	Students identify common geometric figures, classify them by common attributes, and describe their relative position or their location in space.
GRADE LEVEL EXPECTATION	2.1.	Identify, describe, and compare triangles, rectangles, squares, and circles, including the faces of three-dimensional objects.
<b>CONTENT STANDARD</b>	<b>CA.MR.</b>	<b>Mathematical Reasoning</b>
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools, such as manipulatives or sketches, to model problems.
<b>CONTENT STANDARD</b>	<b>CA.MR.</b>	<b>Mathematical Reasoning</b>
PERFORMANCE STANDARD	2.0.	Students solve problems and justify their reasoning.
GRADE LEVEL EXPECTATION	2.1.	Explain the reasoning used and justify the procedures selected.

### Grade: 2

<b>CONTENT STANDARD</b>	<b>CA.MG.</b>	<b>Measurement and Geometry</b>
PERFORMANCE STANDARD	2.0.	Students identify and describe the attributes of common figures in the plane and of common objects in space.
GRADE LEVEL EXPECTATION	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.
GRADE LEVEL EXPECTATION	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).
<b>CONTENT STANDARD</b>	<b>CA.MR.</b>	<b>Mathematical Reasoning</b>
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools, such as manipulatives or sketches, to model problems.
<b>CONTENT STANDARD</b>	<b>CA.MR.</b>	<b>Mathematical Reasoning</b>

PERFORMANCE STANDARD	2.0.	Students solve problems and justify their reasoning.
GRADE LEVEL EXPECTATION	2.1.	Defend the reasoning used and justify the procedures selected.

Hands-On Standards, Deluxe Edition Kit, Grades 1-2: Measurement

Summary: This resource guide meets Grades 1-2 math curriculum standards by matching activities to instructional objectives with ready-to-use, full-color lesson plans organized by strand. Lessons use hands-on activities, incorporating manipulatives into instruction to build concrete understanding and connect concepts to students' growing background of real-world experiences. The Measurement section covers the following skills and concepts: nonstandard units; standard units; inches and feet; choosing a unit; exploring perimeter; measuring perimeter; solving perimeter problems; area of squares and rectangles; exploring volume; comparing volume; time to the half-hour; time to 5 minutes; and elapsed time. Click on the blue link above to view and read about the program components and manipulatives. (43043-4)

California Content Standards

Mathematics

Grade: 1

CONTENT STANDARD	CA.MG.	Measurement and Geometry
PERFORMANCE STANDARD	1.0.	Students use direct comparison and nonstandard units to describe the measurements of objects.
GRADE LEVEL EXPECTATION	1.2.	Tell time to the nearest half hour and relate time to events (e.g., before/after, shorter/longer).
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools, such as manipulatives or sketches, to model problems.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	2.0.	Students solve problems and justify their reasoning.
GRADE LEVEL EXPECTATION	2.1.	Explain the reasoning used and justify the procedures selected.

Grade: 2

CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	3.0.	Students model and solve simple problems involving multiplication and division.
GRADE LEVEL EXPECTATION	3.1.	Use repeated addition, arrays, and counting by multiples to do multiplication.
CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	6.0.	Students use estimation strategies in computation and problem solving that involve numbers that use the ones, tens, hundreds, and thousands places.
GRADE LEVEL EXPECTATION	6.1.	Recognize when an estimate is reasonable in measurements (e.g., closest inch).
CONTENT STANDARD	CA.MG.	Measurement and Geometry
PERFORMANCE STANDARD	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.
GRADE LEVEL EXPECTATION	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.
GRADE LEVEL EXPECTATION	1.3.	Measure the length of an object to the nearest inch and/or centimeter.
GRADE LEVEL	1.5.	Determine the duration of intervals of time in hours (e.g., 11: 00 a.m. to 4: 00 p.m.).

EXPECTATION		
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools, such as manipulatives or sketches, to model problems.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	2.0.	Students solve problems and justify their reasoning.
GRADE LEVEL EXPECTATION	2.1.	Defend the reasoning used and justify the procedures selected.

Hands-On Standards, Deluxe Edition Kit, Grades 1-2: Number and Operations  
 Summary: This resource guide meets Grades 1-2 math curriculum standards by matching activities to instructional objectives with ready-to-use, full-color lesson plans organized by strand. Lessons use hands-on activities, incorporating manipulatives into instruction, to build concrete understanding and connect concepts to students' growing background of real-world experiences. The Number and Operations section covers the following skills and concepts: showing sets of 1 to 5; representing numbers; greater than and less than; exploring counting on; comparing values; addition sentences; adding doubles; exploring counting back; comparison subtraction; subtraction sentences; connecting addition and subtraction; fact families to 10; exploring place value; comparing two-digit numbers; adding without regrouping; adding with regrouping; subtracting without regrouping; subtracting with regrouping; decomposing numbers; repeated addition; repeated subtraction; equal sharing; recognizing fractions; identifying simple fractions; ordering numbers; estimating with basic facts; adding three numbers; and writing number sentences. Click on the blue link above to view and read about the program components and manipulatives. (43043-1)

**California Content Standards  
 Mathematics  
 Grade: 1**

CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	1.0.	Students understand and use numbers up to 100.
GRADE LEVEL EXPECTATION	1.2.	Compare and order whole numbers to 100 by using the symbols for less than, equal to, or greater than.
GRADE LEVEL EXPECTATION	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 $4 + 4$ , $5 + 3$ , $2 + 2 + 2 + 2$ , $10 - 2$ , $11 - 3$ ).
GRADE LEVEL EXPECTATION	1.4.	Count and group object in ones and tens (e.g., three groups of 10 and 4 equals 34, or $30 + 4$ ).
CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	2.0.	Students demonstrate the meaning of addition and subtraction and use these operations to solve problems.
GRADE LEVEL EXPECTATION	2.1.	Know the addition facts (sums to 20) and the corresponding subtraction facts and commit them to memory.
GRADE LEVEL EXPECTATION	2.2.	Use the inverse relationship between addition and subtraction to solve problems.
GRADE LEVEL EXPECTATION	2.5.	Show the meaning of addition (putting together, increasing) and subtraction (taking away, comparing, finding the difference).
CONTENT STANDARD	CA.AF.	Algebra and Functions
PERFORMANCE STANDARD	1.0.	Students use number sentences with operational symbols and expressions to solve problems.
GRADE LEVEL	1.1.	Write and solve number sentences from problem situations that express relationships

EXPECTATION		involving addition and subtraction.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.1.	Determine the approach, materials, and strategies to be used.

Grade: 2

CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	1.0.	Students understand the relationship between numbers, quantities, and place value in whole numbers up to 1,000.
GRADE LEVEL EXPECTATION	1.2.	Use words, models, and expanded forms (e.g., $45 = 4 \text{ tens} + 5$ ) to represent numbers (to 1,000).
GRADE LEVEL EXPECTATION	1.3.	Order and compare whole numbers to 1,000 by using the symbols is less than, =, is greater than.

CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	2.0.	Students estimate, calculate, and solve problems involving addition and subtraction of two- and three-digit numbers.
GRADE LEVEL EXPECTATION	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.
GRADE LEVEL EXPECTATION	2.2.	Find the sum or difference of two whole numbers up to three digits long.
GRADE LEVEL EXPECTATION	2.3.	Use mental arithmetic to find the sum or difference of two two-digit numbers.

CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	3.0.	Students model and solve simple problems involving multiplication and division.
GRADE LEVEL EXPECTATION	3.1.	Use repeated addition, arrays, and counting by multiples to do multiplication.
GRADE LEVEL EXPECTATION	3.2.	Use repeated subtraction, equal sharing, and forming equal groups with remainders to do division.

CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	4.0.	Students understand that fractions and decimals may refer to parts of a set and parts of a whole.
GRADE LEVEL EXPECTATION	4.1.	Recognize, name, and compare unit fractions from $1/12$ to $1/2$ .
GRADE LEVEL EXPECTATION	4.2.	Recognize fractions of a whole and parts of a group (e.g., one-fourth of a pie, two-thirds of 15 balls).
GRADE LEVEL EXPECTATION	4.3.	Know that when all fractional parts are included, such as four-fourths, the result is equal to the whole and to one.

CONTENT STANDARD	CA.AF.	Algebra and Functions
PERFORMANCE STANDARD	1.0.	Students model, represent, and interpret number relationships to create and solve problems involving addition and subtraction.
GRADE LEVEL EXPECTATION	1.2.	Relate problem situations to number sentences involving addition and subtraction.
GRADE LEVEL EXPECTATION	1.3.	Solve addition and subtraction problems by using data from simple charts, picture graphs, and number sentences.

CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.1.	Determine the approach, materials, and strategies to be used.

Summary: This resource guide meets PreK-K math curriculum standards by matching activities to instructional objectives with ready-to-use, full-color lesson plans organized by strand. Lessons use hands-on activities, incorporating manipulatives into instruction to build concrete understanding and connect concepts to students' growing background of real-world experiences. The Algebra section covers the following skills and concepts: sorting by one attribute; sorting by two attributes; determining the sorting rule; extending color, shape, and growing patterns; translating patterns; three-object patterns; and arranging sets of objects. Click on the blue link above to view and read about the program components and manipulatives. (43042-3)

**California Content Standards  
Mathematics  
Grade: K**

CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	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).
GRADE LEVEL EXPECTATION	1.2.	Count, recognize, represent, name, and order a number of objects (up to 30).
CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	2.0.	Students understand and describe simple additions and subtractions.
GRADE LEVEL EXPECTATION	2.1.	Use concrete objects to determine the answers to addition and subtraction problems (for two numbers that are each less than 10).
CONTENT STANDARD	CA.AF.	Algebra and Functions
PERFORMANCE STANDARD	1.0.	Students sort and classify objects.
GRADE LEVEL EXPECTATION	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).
CONTENT STANDARD	CA.SDAP.	Statistics, Data Analysis, and Probability
PERFORMANCE STANDARD	1.0.	Students collect information about objects and events in their environment.
GRADE LEVEL EXPECTATION	1.2.	Identify, describe, and extend simple patterns (such as circles or triangles) by referring to their shapes, sizes, or colors.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools and strategies, such as manipulatives or sketches, to model problems.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	2.0.	Students solve problems in reasonable ways and justify their reasoning.
GRADE LEVEL EXPECTATION	2.1.	Explain the reasoning used with concrete objects and/or pictorial representations.

**Hands-On Standards, Deluxe Edition Kit, PreK-K: Data Analysis and Probability**

Summary: This resource guide meets PreK-K math curriculum standards by matching activities to instructional objectives with ready-to-use, full-color lesson plans organized by strand. Lessons use hands-on activities, incorporating manipulatives into instruction to build concrete understanding and connect concepts to students' growing background of real-world experiences. The Data Analysis and Probability section covers the following skills and concepts: exploring pictographs and bar graphs; graphing data; using a bar graph; cube tallies; and spinner probabilities. Click on the blue link above to view and read about the program components and manipulatives. (43042-5)

**California Content Standards  
Mathematics  
Grade: K**

CONTENT STANDARD	CA.SDAP.	Statistics, Data Analysis, and Probability
PERFORMANCE STANDARD	1.0.	Students collect information about objects and events in their environment.
GRADE LEVEL EXPECTATION	1.1.	Pose information questions; collect data; and record the results using objects, pictures, and picture graphs.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools and strategies, such as manipulatives or sketches, to model problems.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	2.0.	Students solve problems in reasonable ways and justify their reasoning.
GRADE LEVEL EXPECTATION	2.1.	Explain the reasoning used with concrete objects and/or pictorial representations.

**Hands-On Standards, Deluxe Edition Kit, PreK-K: Geometry**

Summary: This resource guide meets PreK-K math curriculum standards by matching activities to instructional objectives with ready-to-use, full-color lesson plans organized by strand. Lessons use hands-on activities, incorporating manipulatives into instruction to build concrete understanding and connect concepts to students' growing background of real-world experiences. The Geometry section covers the following skills and concepts: left and right; attributes of plane shapes; plane shapes and real-life objects; exploring shape attributes; shape attribute riddles; cubes and spheres; geometric pictures and designs; geometric problems; top, middle, and bottom; positions in a line; relative locations; inside and outside; and before and after. Click on the blue link above to view and read about the program components and manipulatives. (43042-2)

**California Content Standards  
Mathematics  
Grade: K**

CONTENT STANDARD	CA.AF.	Algebra and Functions
PERFORMANCE STANDARD	1.0.	Students sort and classify objects.
GRADE LEVEL EXPECTATION	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).
CONTENT STANDARD	CA.MG.	Measurement and Geometry
PERFORMANCE STANDARD	2.0.	Students identify common objects in their environment and describe the geometric features.
GRADE LEVEL EXPECTATION	2.1.	Identify and describe common geometric objects (e.g., circle, triangle, square, rectangle, cube, sphere, cone).
GRADE LEVEL EXPECTATION	2.2.	Compare familiar plane and solid objects by common attributes (e.g., position, shape, size, roundness, number of corners).
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE STANDARD	1.0.	Students make decisions about how to set up a problem.
GRADE LEVEL EXPECTATION	1.2.	Use tools and strategies, such as manipulatives or sketches, to model problems.
CONTENT STANDARD	CA.MR.	Mathematical Reasoning
PERFORMANCE	2.0.	Students solve problems in reasonable ways and justify their reasoning.

STANDARD		
GRADE LEVEL EXPECTATION	2.1.	Explain the reasoning used with concrete objects and/or pictorial representations.

Hands-On Standards, Deluxe Edition Kit, PreK-K: Measurement

Summary: This resource guide meets PreK-K math curriculum standards by matching activities to instructional objectives with ready-to-use, full-color lesson plans organized by strand. Lessons use hands-on activities, incorporating manipulatives into instruction to build concrete understanding and connect concepts to students' growing background of real-world experiences. The Measurement section covers the following skills and concepts: nonstandard measurement of height; sorting by height and length; estimating and measuring length; and exploring perimeter and area. Click on the blue link above to view and read about the program components and manipulatives. (43042-4)

California Content Standards  
Mathematics  
Grade: K

CONTENT STANDARD	CA.MG.	Measurement and Geometry
PERFORMANCE STANDARD	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.
GRADE LEVEL EXPECTATION	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).

Hands-On Standards, Deluxe Edition Kit, PreK-K: Number and Operations

Summary: This resource guide meets PreK-K math curriculum standards by matching activities to instructional objectives with ready-to-use, full-color lesson plans organized by strand. Lessons use hands-on activities, incorporating manipulatives into instruction to build concrete understanding and connect concepts to students' growing background of real-world experiences. The Number and Operations section covers the following skills and concepts: counting to 5 and back; groups of 0 to 5; groups of 6 to 10; number shapes; estimating and counting; comparing groups; equal groups; more and fewer; order of numbers; ordinal numbers; counting on; part-part-whole; joining problems; using the plus sign; decomposing numbers; separating problems; using the minus sign; identifying halves; position of objects; representing numbers with objects; more than, less than, same as; addition-sums to 10; and subtraction-differences from 10. Click on the blue link above to view and read about the program components and manipulatives. (43042-1)

California Content Standards  
Mathematics  
Grade: K

CONTENT STANDARD	CA.NS.	Number Sense
PERFORMANCE STANDARD	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).
GRADE LEVEL EXPECTATION	1.1.	Compare two or more sets of objects (up to 10 objects in each group) and identify which set is equal to, more than, or less than the other.
GRADE LEVEL EXPECTATION	1.2.	Count, recognize, represent, name, and order a number of objects (up to 30).
GRADE LEVEL EXPECTATION	1.3.	Know that the larger numbers describe sets with more objects in them than the smaller numbers have.

<b>CONTENT STANDARD</b>	<b>CA.NS.</b>	<b>Number Sense</b>
<b>PERFORMANCE STANDARD</b>	2.0.	Students understand and describe simple additions and subtractions.
<b>GRADE LEVEL EXPECTATION</b>	2.1.	Use concrete objects to determine the answers to addition and subtraction problems (for two numbers that are each less than 10).
<b>CONTENT STANDARD</b>	<b>CA.MR.</b>	<b>Mathematical Reasoning</b>
<b>PERFORMANCE STANDARD</b>	1.0.	Students make decisions about how to set up a problem.
<b>GRADE LEVEL EXPECTATION</b>	1.1.	Determine the approach, materials, and strategies to be used.
<b>GRADE LEVEL EXPECTATION</b>	1.2.	Use tools and strategies, such as manipulatives or sketches, to model problems.

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