



*Literacy and Intervention*

## CALIFORNIA STATE STANDARDS

# Academy of MATH<sup>®</sup>

**Proven to Raise Achievement for Struggling Students**

Grades 2–12



# Academy of MATH and the California State Standards for Mathematics

## Academy of MATH: LEVEL ONE

<b>Academy of MATH Instructional Focus</b>	Students that complete Level One in the Academy of MATH cover these California Math Standards
<b>Numeration</b> – This section will introduce the student to the concept of numeration. Some of the key things include: Numeration key words and symbols, place values of ones and tens, comparing numbers, identifying patterns in sets, and number patterns. Standard & Expanded forms.	<p>Kindergarten: Number Sense 1.1; 1.2; 1.3 Algebra &amp; Functions 1.1 Mathematical Reasoning 1.1; 1.2</p> <p>Grade One: Number Sense 1.1; 1.2; 1.4; 3.1 Stats, Data Analysis &amp; Probability 2.1</p>
<b>Addition</b> - This section will guide the student through different addition problems. Some of the key things that will be introduced will include: Addition related key words and symbols, how to add groups together, addition facts, and addition patterns.	<p>Kindergarten: Number Sense 2.1; 3.1 Mathematical Reasoning 1.1; 1.2; 2.2</p> <p>Grade One: Number Sense 2.1; 2.2; 2.5; 2.6; 3.1 Algebra &amp; Functions 1.1; 1.2; 1.3 Mathematical Reasoning 1.1; 2.1</p>
<b>Subtraction</b> – This section will introduce the student to simple subtraction problems. Some of the key concepts include: Subtraction key words, subtraction patterns, checking subtractions using addition, and solving subtraction word problems.	<p>Kindergarten: Number Sense 2.1; 3.1 Mathematical Reasoning 1.1; 1.2; 2.2</p> <p>Grade One: Number Sense 2.1; 2.2; 2.5; 2.6; 3.1 Algebra &amp; Functions 1.1; 1.2; 1.3 Mathematical Reasoning 1.1; 2.1</p>
<b>Multiplication</b> – This section will introduce the student to simple multiplication. Some of the key concepts include: Multiplication related key terms, relating multiplication to repetitive addition, identifying multiplication patterns, solving simple multiplication word problems, and using the multiplication table.	<p>Kindergarten: Mathematical Reasoning 1.1; 1.2; 2.2</p> <p>Grade One: Mathematical Reasoning 1.1; 2.1</p>
<b>Division</b> - In this section the student will be introduced to simple division problems. Some of the key things in this section will include: Division key words, how to divide into groups, and identifying secrets to solve division problems.	<p>Kindergarten: Mathematical Reasoning 1.1; 1.2; 2.2</p> <p>Grade One: Mathematical Reasoning 1.1; 2.1</p>

<p><b>Fractions</b> - This section will introduce the student to the concept of fractions. Some of the key things include: Fraction related key words, how to name a fraction, and solving simple fraction words problems.</p>	<p>Kindergarten: Mathematical Reasoning 1.1; 1.2</p> <p>Grade One: Mathematical Reasoning 1.1; 2.1</p>
<p><b>Equations</b> - This section will guide the student through different equation problems. Some of the key things that will be introduced are: Equation key words and symbols, finding the missing number, and secrets to solving equation word problems.</p>	<p>Kindergarten: Mathematical Reasoning 1.1; 1.2</p> <p>Grade One: Number Sense 1.3; 2.3; 2.4 Algebra &amp; Functions 1.1; 1.2; 1.3 Stats, Data Analysis &amp; Probability 2.1 Mathematical Reasoning 1.1; 2.1</p>
<p><b>Measurement</b> - This section will introduce the student to the concept of measurements. Some of the key things will include: Measurement key words and terminology, temperature, capacity, weight, area, time, money, how to estimate, and solving simple measurement problems.</p>	<p>Kindergarten: Measurement &amp; Geometry 1.1; 1.2; 1.3; 1.4 Mathematical Reasoning 1.1; 1.2</p> <p>Grade One: Number Sense 1.5 Measurement &amp; Geometry 1.1; 1.2</p>
<p><b>Geometry</b> - This section will introduce the student to basic geometry figures. Key topics in this section will include: Geometry key words, identifying and recognizing the faces of a solid, introduction to patterns, and slides transformation.</p>	<p>Kindergarten: Measurement &amp; Geometry 2.1; 2.2</p> <p>Grade One: Measurement &amp; Geometry 2.1; 2.2; 2.3; 2.4</p>
<p><b>Graphs</b> - This section will introduce the student to two types of graphs, bar graphs and picture graphs or pictographs. The student will be taught graph related keywords, and how to interpret data from a graph.</p>	<p>Kindergarten: Stats, Data Analysis &amp; Probability 1.1; 1.2</p> <p>Grade One: Stats, Data Analysis &amp; Probability 1.1; 1.2</p>

**Academy of MATH:  
LEVEL TWO**

<p><b>Academy of MATH Instructional Focus</b></p>	<p>Students that complete Level Two in the Academy of MATH cover these California Math Standards</p>
<p><b>Numeration</b> – This section guide the student through different numeration problems. Some of the key concepts include: Numeration key words and symbols, place values (of ones, tens, and hundreds), regrouping ones as tens, ordering least to greatest, odd and even numbers, patterns, ordinal numbers, and sorting and classifying numbers.</p>	<p>Grade One: Number Sense 1.1; 1.2; 1.4; 3.1 Stats, Data Analysis &amp; Probability 2.1</p> <p>Grade Two: Stats, Data Analysis &amp; Probability 2.1; 2.2</p>
<p><b>Addition</b> - This section with guide the student</p>	<p>Grade One:</p>

<p>through different addition problems. Some of the key things that will be introduced will include: Addition related key words and symbols, regrouping ones as tens, and solving simple addition word problems.</p>	<p>Number Sense 2.1; 2.2; 2.5; 2.6; 3.1 Algebra &amp; Functions 1.1; 1.2; 1.3 Mathematical Reasoning 1.1; 2.1</p> <p>Grade Two: Number Sense 2.1; 2.3 Algebra &amp; Functions 1.1; 1.2; 1.3 Mathematical Reasoning 1.1; 2.2</p>
<p><b>Subtraction</b> – This section will introduce the student to simple subtraction problems. Some of the key concepts include: Subtraction key words and symbols, subtracting two-digit numbers, and solving simple subtraction word problems</p>	<p>Grade One: Number Sense 2.1; 2.2; 2.5; 2.6; 3.1 Algebra &amp; Functions 1.1; 1.2; 1.3 Mathematical Reasoning 1.1; 2.1</p> <p>Grade Two: Number Sense 2.1; 2.3 Algebra &amp; Functions 1.2; 1.3 Mathematical Reasoning 1.1; 2.2</p>
<p><b>Multiplication</b> – This section will introduce the student to simple multiplication. Some of the key concepts include: Multiplication related key words and symbols, multiplication – repeated addition, solving simple multiplication word problems, and using the multiplication table.</p>	<p>Grade One: Mathematical Reasoning 1.1; 2.1</p> <p>Grade Two: Number Sense 3.1: 3.3 Algebra &amp; Functions 1.1 Mathematical Reasoning 1.1; 2.2</p>
<p><b>Division</b> - In this section the student will be introduced to simple division problems. Some of the key things in this section will include: Division related key words, how to perform simple division, division – repeating subtraction, checking division with multiplication, and solving division word problems.</p>	<p>Grade One: Mathematical Reasoning 1.1; 2.1</p> <p>Grade Two: Number Sense 3.2 Mathematical Reasoning 1.1; 2.2</p>
<p><b>Fractions</b> - This section will guide the student through different fraction problems. Some of the key things include: Fraction related key words, simple fractions, naming fractions, comparing and ordering fractions, and solving simple fraction word problems.</p>	<p>Grade One: Mathematical Reasoning 1.1; 2.1</p> <p>Grade Two: Number Sense 4.1; 4.2; 4.3 Mathematical Reasoning 1.1; 2.2</p>
<p><b>Equations</b> - This section will guide the student through different equation problems. Some of the key things that will be introduced are: Equation key words, finding or solving for an unknown number, and solving equation word problems.</p>	<p>Grade One: Number Sense 1.3; 2.3; 2.4 Algebra &amp; Functions 1.1; 1.2; 1.3 Stats, Data Analysis &amp; Probability 2.1 Mathematical Reasoning 1.1; 2.1</p> <p>Grade Two: Stats, Data Analysis &amp; Probability 2.1; 2.2 Mathematical Reasoning 1.1; 2.2</p>

<p><b>Measurement</b> - This section will guide the student through different measurement problems. Some of the key things will include: Measurement key words, basic measuring units, length, temperature, capacity, weight, time, money, estimating, and solving simple measurement problems</p>	<p>Grade One: Number Sense 1.5 Measurement &amp; Geometry 1.1; 1.2</p> <p>Grade Two: Number Sense 5.1; 5.2; 6.1 Measurement &amp; Geometry 1.1; 1.2; 1.3; 1.4; 1.5 Mathematical Reasoning 1.1; 2.2</p>
<p><b>Geometry</b> - This section guide the student through different geometry problems. Key topics in this section will include: Geometry key words, special polygons, patterns, and identifying similar and identical figures.</p>	<p>Grade One: Measurement &amp; Geometry 2.1; 2.2; 2.3; 2.4</p> <p>Grade Two: Measurement &amp; Geometry 2.1 Mathematical Reasoning 1.1; 2.2</p>
<p><b>Graphs</b> - This section will guide the student through different graph problems. Some of the key things will include: Bar graphs, picture graphs or pictographs, graph related keywords, and how to read data from a graph.</p>	<p>Grade One: Stats, Data Analysis &amp; Probability 1.1; 1.2</p> <p>Grade Two: Stats, Data Analysis &amp; Probability 1.1; 1.2; 1.4</p>

**Academy of MATH:  
LEVEL THREE**

<p><b>Academy of MATH Instructional Focus</b></p>	<p>Students that complete Level Three in the Academy of MATH cover these California Math Standards</p>
<p><b>Numeration</b> – This section will guide the student through different numeration problems. Some of the key concepts include: Numeration key words and symbols, place values (of ones, tens, hundreds and thousands), regrouping (ones as tens and tens as hundreds), comparing and ordering numbers, ordinal numbers, and solving numeration word problems.</p>	<p>Grade Two: Number Sense 1.1; 1.2; 1.3 Stats, Data Analysis &amp; Probability 2.1; 2.2</p>
<p><b>Addition</b> - This section with guide the student through different addition problems. Some of the key things that will be introduced will include: Addition related key words and symbols, adding and regrouping 3-digit numbers, and solving addition word problems.</p>	<p>Grade Two: Number Sense 2.1; 2.2; 2.3 Algebra &amp; Functions 1.1; 1.2; 1.3 Mathematical Reasoning 1.1; 2.2</p> <p>Grade Three: Mathematical Reasoning 1.1; 2.1; 2.6</p>
<p><b>Subtraction</b> – This section will introduce the student to simple subtraction problems. Some of the key concepts include: Subtraction key words and</p>	<p>Grade Two: Number Sense 2.1; 2.2; 2.3 Algebra &amp; Functions 1.2; 1.3</p>

symbols, subtracting three-digit numbers, and solving subtraction word problems.	Mathematical Reasoning 1.1; 2.2  Grade Three: Mathematical Reasoning 1.1; 2.1; 2.6
<b>Multiplication</b> – This section will guide the student through different multiplication problems. Some of the key concepts include: Multiplication related key words and symbols, multiplication – repeated addition, multiplication facts, solving multiplication word problems, and using the multiplication table.	Grade Two: Number Sense 3.1; 3.3 Algebra & Functions 1.1 Mathematical Reasoning 1.1; 2.2  Grade Three: Number Sense 2.3; 2.6 Mathematical Reasoning 1.1; 2.1; 2.6
<b>Division</b> - This section will guide the student through different division problems. Some of the key things in this section will include: Division related key words and symbols, division operation, division – repeating subtraction, division – multiplication relations, and solving division word problems.	Grade Two: Number Sense 3.2 Mathematical Reasoning 1.1; 2.2  Grade Three: Number Sense 2.3; 2.6 Mathematical Reasoning 1.1; 2.1; 2.6
<b>Fractions</b> - This section will guide the student through different fraction problems. Some of the key things include: Fraction related key words and symbols, fractions, comparing and ordering fractions, mixed numbers, decimal tenths, comparing and ordering decimals, adding and subtracting decimals, and solving fraction word problems.	Grade Two: Number Sense 4.1; 4.2; 4.3 Mathematical Reasoning 1.1; 2.2  Grade Three: Number Sense 3.1; 3.2 Mathematical Reasoning 1.1; 2.1; 2.6
<b>Equations</b> - This section will guide the student through different equation problems. Some of the key things that will be introduced are: Equation key words and symbols, finding or solving for an unknown number, and solving equation word problems.	Grade Two: Stats, Data Analysis & Probability 2.1; 2.2 Mathematical Reasoning 1.1; 2.2  Grade Three: Mathematical Reasoning 1.1; 2.1; 2.6
<b>Measurement</b> - This section will guide the student through different measurement problems. Some of the key things will include: Measurement key words and symbols, basic measuring units, length, perimeter, temperature, capacity, weight, telling time, using money, and solving measurement word problems.	Grade Two: Number Sense 5.1; 5.2; 6.1 Measurement & Geometry 1.1; 1.2; 1.3; 1.4; 1.5 Mathematical Reasoning 1.1; 2.2  Grade Three: Measurement & Geometry 1.3 Mathematical Reasoning 1.1; 2.1; 2.6
<b>Geometry</b> - This section will guide the student through different geometry problems. Key topics in this section will include: Geometry key words, angles, congruency, symmetry, 3-dimensional solids, polygons and circles	Grade Two: Measurement & Geometry 2.1; 2.2 Mathematical Reasoning 1.1; 2.2  Grade Three:

	Measurement & Geometry 2.1; 2.5 Mathematical Reasoning 1.1; 2.1; 2.6
<b>Graphs</b> - This section will guide the student through different graph problems. Some of the things will include: Graph related key words, tallied data, coordinate graphs or grids, and creating and reading graphs.	Grade Two: Stats, Data Analysis & Probability 1.1; 1.2; 1.3; 1.4

### Academy of MATH: LEVEL FOUR

<b>Academy of MATH Instructional Focus</b>	Students that complete Level Four in the Academy of MATH cover these California Math Standards
<b>Numeration</b> – This section will guide the student through different numeration problems. Some of the key concepts include: Numeration key words and symbols, place values, expanded and standard forms of numerals, rounding, commutative and associative properties of addition and multiplication, and solving numeration word problems.	Grade Three: Number Sense 1.1; 1.2; 1.3; 1.4; 1.5 Mathematical Reasoning 1.1
<b>Addition</b> - This section will guide the student through different addition problems. Some of the key things that will be introduced will include: Addition related key words and symbols, rounding, adding and regrouping 5-digit numbers, and solving addition word problems.	Grade Three: Algebra & Functions 2.1; 2.2 Mathematical Reasoning 1.1; 1.2; 2.1; 2.6
<b>Subtraction</b> – This section will guide the student through different subtraction problems. Some of the key concepts include: Subtraction key words and symbols, subtraction and regrouping, subtracting five-digit numbers, and solving subtraction word problems.	Grade Three: Algebra & Functions 2.1; 2.2 Mathematical Reasoning 1.1; 1.2; 2.1; 2.6
<b>Multiplication</b> – This section will guide the student through different multiplication problems. Some of the key concepts include: Multiplication related key words and symbols, multiplication by 2-digit numbers, multiplying by multiples of 100, solving multiplication word problems, and using the multiplication table.	Grade Three: Number Sense 2.3; 2.6 Algebra & Functions 1.5; 2.2 Mathematical Reasoning 1.1; 2.1; 2.3; 2.4; 2.6; 2.8
<b>Division</b> - This section will guide the student through different division problems. Some of the key things in this section will include: Division related terms and symbols, dividing, dividing by multiples of tens, and solving division word problems.	Grade Three: Number Sense 2.3; 2.6 Algebra & Function 2.2 Mathematical Reasoning 1.1; 2.1; 2.3; 2.4; 2.5; 2.6; 2.8

<p><b>Fractions</b> - This section will guide the student through different fraction problems. Some of the key things include: Fraction related key words and symbols, understating fractions, decimal tenths, adding and subtracting decimals, and solving fraction word problems.</p>	<p>Grade Three: Number Sense 3.1; 3.2; 3.4 Mathematical Reasoning 1.1; 2.1; 2.6</p>
<p><b>Equations</b> - This section will guide the student through different equation problems. Some of the key things that will be introduced are: Identifying expressions and equations, order of operations, commutative and associative properties of addition and multiplication, solving for an unknown variable, related equations, and solving equation word problems.</p>	<p>Grade Three: Algebra &amp; Functions 1.1; 1.2; 1.3; Mathematical Reasoning 1.1; 2.1; 2.6</p> <p>Grade Four: Algebra &amp; Functions 1.1; 1.5</p>
<p><b>Measurement</b> - This section will guide the student through different measurement problems. Some of the key things will include: Measurement key words and symbols, measuring units, equivalent units and relationships, length and distance, perimeter, area, time, weight, capacity, temperature, money, comparing and estimating measurement, and solving measurement word problems</p>	<p>Grade Three: Number Sense 2.7; 3.3 Algebra &amp; Functions 1.4 Measurement &amp; Geometry 1.1; 1.2; 1.3; 1.4 Mathematical Reasoning 1.1; 2.1; 2.6</p>
<p><b>Geometry</b> - This section will guide the student through different geometry problems. Key topics in this section will include: Geometry key words and symbols, lines, images or transformations (slides, flips and turns), types of quadrilaterals, and types of angles.</p>	<p>Grade Three: Measurement &amp; Geometry 2.1; 2.3; 2.4; 2.5 Mathematical Reasoning 1.1; 2.1; 2.6</p>
<p><b>Graphs</b> - This section will guide the student through different graphing problems. Some of the things will include: Graph related key words, tabulated data, creating and reading graphs, and solving word problems using graphs.</p>	<p>Grade Three: Mathematical Reasoning 2.3</p>

**Academy of MATH:  
LEVEL FIVE**

<p><b>Academy of MATH Instructional Focus</b></p>	<p>Students that complete Level Five in the Academy of MATH cover these California Math Standards</p>
<p><b>Numeration</b> – This section will guide the student through different numeration problems. Some of the key concepts include: Numeration key words and symbols, place values, comparing and ordering numbers, rounding, commutative and associative</p>	<p>Grade Four: Number Sense 1.2; 1.4, 4.1 Mathematical Reasoning 1.1; 1.2</p>



properties of addition and multiplication, and solving word problems.	
<b>Addition</b> - This section will guide the student through different addition problems. Some of the key things that will be introduced will include: Addition related key words and symbols, rounding, adding and regrouping 6-digit numbers, estimating sums, and solving addition word problems.	Grade Four: Number Sense 2.1; 2.2; 3.1; 4.1 Mathematical Reasoning 1.1; 1.2; 2.1; 2.6
<b>Subtraction</b> – This section will guide the student through different subtraction problems. Some of the key concepts include: Subtraction key words and symbols, subtracting six-digit numbers, and solving word problems.	Grade Four: Number Sense 2.1; 2.2; 3.1 Mathematical Reasoning 1.1; 1.2; 2.1; 2.6
<b>Multiplication</b> – This section will guide the student through different multiplication problems. Some of the key concepts include: Multiplication related key words and symbols, multiplication properties, multiplication by 3-digit numbers, multiplying by multiples of 1,000, distributive properties of multiplication, prime and composite numbers, solving word problems, and using the multiplication table.	Grade Four: Number Sense 3.2; 3.3; 4.1; 4.2 Mathematical Reasoning 1.1; 1.2; 2.1; 2.6
<b>Division</b> - This section will guide the student through different division problems. Some of the key things in this section will include: Division related terms and symbols, dividing, finding averages, and solving word problems.	Grade Four: Number Sense 3.2; 3.4 Mathematical Reasoning 1.1; 1.2; 2.1; 2.6
<b>Fractions</b> - This section will guide the student through different fraction problems. Some of the key things include: Fraction related key words, learning to work with fractions, adding and subtracting mixed numbers, adding and subtracting decimal hundredths, multiplying decimal fraction, and solving fraction word problems.	Grade Four: Number Sense 1.5; 1.6; 1.7; 1.9; 2.1; 2.2 Mathematical Reasoning 1.1; 1.2; 2.1; 2.6
<b>Equations</b> - This section will guide the student through different equation problems. Some of the key things that will be introduced are: keywords and symbols, order of operations, expressions, variables, solving for unknown variables, and solving equation word problems.	Grade Four: Algebra & Functions 1.1; 1.2; 1.3; 1.5; 2.1 Mathematical Reasoning 1.1; 1.2; 2.1; 2.6
<b>Measurement</b> - This section will guide the student through different measurement problems. Some of the key things will include: Measurement key words and symbols, length units, perimeter, area, capacity, volume, weight, the 24-hour clock, scale drawings, estimates, and solving measurement word problems	Grade Four: Measurement & Geometry 1.1; 1.2; 1.3; 1.4 Mathematical Reasoning 1.1; 1.2; 2.1; 2.6

<p><b>Geometry</b> - This section will guide the student through different geometry problems. Key topics in this section will include: Geometry key words, lines, angles, solids – pyramids and prisms, types of polygons, types of triangles, types of quadrilaterals, circles, and solving problems.</p>	<p>Grade Four: Algebra &amp; Functions 1.4 Measurement &amp; Geometry 3.1; 3.2; 3.3; 3.4; 3.5; 3.6; 3.7; 3.8 Mathematical Reasoning 1.1; 1.2; 2.1; 2.6</p>
<p><b>Graphs</b> - This section will guide the student through different graphing problems. Some of the things will include: Graph related key words, grids or co-ordinate graphs, line graphs, constructing line graphs, and reading and reading construction circle graphs.</p>	<p>Grade Four: Measurement &amp; Geometry 2.1 Stats, Data Analysis &amp; Probability 1.1; 1.3 Mathematical Reasoning 2.3</p>

### Academy of MATH: LEVEL SIX

<p><b>Academy of MATH Instructional Focus</b></p>	<p>Students that complete Level Six in the Academy of MATH cover these California Math Standards</p>
<p><b>Numeration</b> – This section will guide the student through different numeration problems. Some of the key concepts include: Numeration key words and symbols, place values, rounding, and solving word problems.</p>	<p>Grade Four: Number Sense 1.1; 1.3  Grade Five: Number Sense 1.1;</p>
<p><b>Addition</b> - This section with guide the student through different addition problems. Some of the key things will include: Addition related key words and symbols, adding and regrouping 7-digit numbers, estimating sums, and solving addition word problems.</p>	<p>Grade Five: Mathematical Reasoning 1.1; 1.2; 2.1; 2.5; 2.6</p>
<p><b>Subtraction</b> – This section will guide the student through different subtraction problems. Some of the key concepts include: Subtraction key words and symbols, subtracting 7-digit numbers, and solving word problems.</p>	<p>Grade Five: Mathematical Reasoning 1.1; 1.2; 2.1; 2.5; 2.6</p>
<p><b>Multiplication</b> – This section will guide the student through different multiplication problems. Some of the key concepts include: Multiplication related key words and symbols, multiplication by 3-digit numbers, , distributive properties of multiplication, multiples and LCM, factors and GCF, prime numbers, solving word problems, and using the multiplication table.</p>	<p>Grade Five: Number Sense 1.4 Mathematical Reasoning 1.1; 1.2; 2.1; 2.5; 2.6  Grade Six: Number Sense 2.4</p>
<p><b>Division</b> - This section will guide the student through different division problems. Some of the key things in this section will include: Division related terms</p>	<p>Grade Five: Number Sense 2.2 Mathematical Reasoning 1.1; 1.2; 2.1; 2.5; 2.6</p>

and symbols, division, dividing by multiples of 100, short division, and solving word problems.	
<b>Fractions</b> - This section will guide the student through different fraction problems. Some of the key things include: Fraction related key words, understanding fractions, operations with fractions, operations with decimals, percent, and solving word problems.	Grade Five: Number Sense 1.2; 1.5; 2.1; 2.3; 2.4; 2.5 Mathematical Reasoning 1.1; 1.2; 2.1; 2.5; 2.6  Grade Six: Number Sense 2.4
<b>Equations</b> - This section will guide the student through different equation problems. Some of the key things are: keywords and symbols, expressions, variables, solving equations, substituting for variables, and solving equation word problems.	Grade Five: Algebra & Functions 1.1; 1.2; 1.3 Mathematical Reasoning 1.1; 1.2; 2.1; 2.5; 2.6  Grade Six: Algebra & Functions 1.1; 1.3; 1.4
<b>Measurement</b> - This section will guide the student through different measurement problems. Some of the key things will include: Measurement key words and symbols, units for measuring length, perimeter, circumference, area, volume, capacity, weight, time, comparing and estimating measurements, and solving measurement word problems	Grade Five: Measurement & Geometry 1.1; 1.2; 1.3; 1.4 Mathematical Reasoning 1.1; 1.2; 2.1; 2.5; 2.6  Grade Six: Algebra & Functions 2.1
<b>Geometry</b> - This section will guide the student through different geometry problems. Key topics in this section will include: Geometry key words, lines, angles, shapes in geometry, polygons, triangles, quadrilaterals, and tiling and tessellation.	Grade Five: Measurement & Geometry 2.1; 2.2; 2.3 Mathematical Reasoning 1.1; 1.2; 2.1; 2.5; 2.6  Grade Six: Algebra & Functions 3.1 Measurement & Geometry 1.2; 1.3; 2.1
<b>Graphs</b> - This section will guide the student through different graphing problems. Some of the things will include: Graph related key words, grids or coordinate graphs, reading line graphs, pictographs and tally sheets, constructing line graphs, and constructing circle graphs.	Grade Five: Algebra & Functions 1.1; 1.4 Stats, Data Analysis & Probability 1.2; 1.4; 1.5 Mathematical Reasoning 2.3

**Academy of MATH:  
LEVEL SEVEN**

<b>Academy of MATH Instructional Focus</b>	Students that complete Level Seven in the Academy of MATH cover these California Math Standards
<b>Numeration</b> – This section will guide the student through different numeration problems. Some of the key concepts include: Numeration key words and symbols, integers, adding integers, place values and	Grade Four: Number Sense 1.8  Grade Five:

expanded form, rounding and estimating, braces and parenthesis, exponential numbers, and square roots.	<p>Number Sense 1.3 Algebra &amp; Functions 1.5</p> <p>Grade Six: Number Sense 2.1 Mathematical Reasoning 1.3</p> <p>Grade Seven: Number Sense 1.1</p>
<b>Addition</b> - This section will guide the student through different addition problems. Some of the key things will include: Addition related key words and symbols, estimating sums, adding integers, adding with millions, ten millions and hundred millions, grouping and ordering, and solving addition word problems.	<p>Grade Six: Number Sense 2.1 Mathematical Reasoning 1.3; 2.1; 2.3; 2.6; 2.7</p> <p>Grade Seven: Number Sense 1.2</p>
<b>Subtraction</b> – This section will guide the student through different subtraction problems. Some of the key concepts include: Subtraction key words and symbols, estimating differences, grouping and ordering, subtracting with millions, ten millions and hundred millions, and solving word problems.	<p>Grade Six: Mathematical Reasoning 1.3; 2.1; 2.3; 2.6; 2.7</p>
<b>Multiplication</b> – This section will guide the student through different multiplication problems. Some of the key concepts include: Multiplication related key words and symbols, factors, multiples, relationship between multiples and factors, multiplication by powers of ten, solving word problems, and using the multiplication table.	<p>Grade Six: Number Sense 2.4 Mathematical Reasoning 1.3; 2.1; 2.3; 2.6; 2.7</p> <p>Grade Seven: Algebra &amp; Functions 2.1</p>
<b>Division</b> - This section will guide the student through different division problems. Some of the key things in this section will include: Division related terms and symbols, estimate, dividing by powers of 10, calculating averages, factors, finding the greatest common factor, and solving word problems.	<p>Grade Six: Mathematical Reasoning 1.3; 2.1; 2.3; 2.6; 2.7</p>
<b>Fractions</b> - This section will guide the student through different fraction problems. Some of the key things include: Fraction related key words, equivalent fractions, comparing and ordering fractions, improper and mixed fractions, multiplying fractions, reciprocals, dividing fractions, fractions and decimals, terminating and repeating decimals, percents, operations with decimals (adding, subtracting, multiplying and dividing), rounding decimals, multiplying and dividing by powers of ten, and solving word problems.	<p>Grade Six: Number Sense 1.1; 1.4; 2.1; 2.2; Mathematical Reasoning 1.3; 2.1; 2.3; 2.6; 2.7</p>

<p><b>Equations</b> - This section will guide the student through different equation problems. Some of the key things are: keywords and symbols, order of operation, expressions, variables, using expressions with variables, using equations with variables, terms, translating expressions, solving equations, and solving equation word problems.</p>	<p>Grade Six: Mathematical Reasoning 1.3; 2.1; 2.3; 2.6; 2.7</p>
<p><b>Measurement</b> - This section will guide the student through different measurement problems. Some of the key things will include: Measurement key words and symbols, calculating perimeter, area and volume, capacity, weight, area conversions, and Imperial and Metric conversions.</p>	<p>Grade Six: Mathematical Reasoning 1.3; 2.1; 2.3; 2.6; 2.7</p> <p>Grade Seven: Measurement &amp; Geometry 1.1; 1.2</p>
<p><b>Geometry</b> - This section will guide the student through different geometry problems. Key topics in this section will include: Geometry key words, types of angles, intersecting, perpendicular and parallel lines, polygons, triangles, quadrilaterals, congruent figures, motion geometry, rotational symmetry, and tiling patterns.</p>	<p>Grade Six: Measurement &amp; Geometry 2.1; 2.2 Mathematical Reasoning 1.3; 2.1; 2.3; 2.6; 2.7</p> <p>Grade Seven: Measurement &amp; Geometry 2.1; 2.2; 2.3; 3.4</p>
<p><b>Graphs</b> - This section will guide the student through different graphing problems. Some of the things will include: Graph related key words, tally charts, line graphs, pictographs, bar graphs, broken-line graphs and histograms. Key concepts about probability are covered and ways of determining the likelihood or unlikelihood of events.</p>	<p>Grade Five: Stats, Data Analysis &amp; Probability 1.3</p> <p>Grade Six: Stats, Data Analysis &amp; Probability 1.1; 1.4; 2.3; 3.3; 3.5 Mathematical Reasoning 2.4</p>

**Academy of MATH:  
LEVEL EIGHT**

<p><b>Academy of MATH Instructional Focus</b></p>	<p>Students that complete Level Eight in the Academy of MATH cover these California Math Standards</p>
<p><b>Numeration</b> – This section will guide the student through different numeration problems. Some of the key concepts include: Numeration key words and symbols, integers, adding integers, place values of decimal numbers, rounding a decimal number, ratios and proportions, exponential numbers, and square roots.</p>	<p>Grade Six: Number Sense 1.2; 1.3</p> <p>Grade Seven: Number Sense 1.1; 1.2 Mathematical Reasoning 1.1; 1.3</p>
<p><b>Addition</b> - This section will guide the student through different addition problems. Some of the key things will include: Addition related key words and symbols, adding with millions, ten millions, and</p>	<p>Grade Seven: Mathematical Reasoning 1.1; 1.3; 2.1; 2.7; 2.8</p>

hundred millions, adding integers, and solving addition word problems.	
<b>Subtraction</b> – This section will guide the student through different subtraction problems. Some of the key concepts include: Subtraction key words and symbols, subtracting nine-digit numbers, inverse operations, subtracting integers, and grouping and ordering.	Grade Seven: Mathematical Reasoning 1.1; 1.3; 2.1; 2.7; 2.8
<b>Multiplication</b> – This section will guide the student through different multiplication problems. Some of the key concepts include: Multiplication related key, prime factorization of composite numbers, multiplying integers, checking a product, divisibility test for nine, estimating the product, and using the multiplication table.	Grade Seven: Mathematical Reasoning 1.1; 1.3; 2.1; 2.7; 2.8
<b>Division</b> - This section will guide the student through different division problems. Some of the key things in this section will include: Division related terms and symbols, divisibility test for two, divisibility test for three, divisibility test for five, divisibility test for nine, divisibility test for ten, other divisibility tests, estimating quotients, calculating averages, and dividing integers.	Grade Seven: Mathematical Reasoning 1.1; 1.3; 2.1; 2.7; 2.8
<b>Fractions</b> - This section will guide the student through different fraction problems. Some of the key things include: Fraction related key words, expressing fractions in lowest terms, multiplying fractions, dividing fractions, expressing common fractions as decimal fractions, terminating and repeating decimals, converting decimal fractions to common fractions, converting decimal fractions and common fractions to percent, dividing decimals, and solving problems with percent.	Grade Seven: Number Sense 1.3; 1.5; 1.6; 1.7; 2.2  Algebra I 12.0
<b>Equations</b> - This section will guide the student through different equation problems. Some of the key things that will be introduced are: keywords and symbols, order of operations, variables, expressions, equations, using expressions and equations with variables, terms, translating expressions, solving equations, formulas, and solving problems.	Grade Seven: Algebra & Functions 1.1; 1.2; 1.3; 1.4;  Algebra I 4.0; 5.0
<b>Measurement</b> - This section will guide the student through different measurement problems. Some of the key things will include: Measurement key words and symbols, calculating perimeter, calculating area, calculating surface area, calculating volume, measuring capacity, volume of capacity, units of	Grade Seven: Measurement & Geometry 2.4

mass, and conversion between the imperial and the metric system.	
<b>Geometry</b> - This section will guide the student through different geometry problems. Key topics in this section will include: Geometry key words, intersecting, perpendicular and parallel lines, angles, triangles, congruence, transformations, and rotational symmetry.	Grade Seven: Measurement & Geometry 3.1; 3.2; 3.3; 3.4  Geometry 8.0; 9.0; 10.0; 20.0; 22.0
<b>Graphs</b> - This section will guide the student through different graphing problems. Some of the things will include: Graph related key words, interpreting circle graphs, the coordinate system, and statistical analysis of data. Key concepts about probability are covered and ways of determining the likelihood or unlikelihood of events.	Grade Five: Stats; Data Analysis & Probability 1.1  Grade Seven: Algebra & Functions 1.5 Stats, Data Analysis & Probability 1.1; 1.2; 1.3

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