MIG Supplement-Grade 4
enVision MATH California alignment with Common Core State Standards

This supplement is provided to help with planning as you implement California's Common Core State Standards with enVisionMATH CA 2009. This supplemental guide indicates the Common Core State Standards for Mathematical Content that each lesson addresses. Included are also references to off-grade level standards (such as standards that are now considered content from previous grade levels or future grade levels.) These references will help you become familiar with the content shifts of California's Common Core.

Additional lessons, which are referenced by a capital letter after the number, offer in-depth coverage of certain standards. These additional lessons and the lessons in enVisionMATH 2009 provide coverage of California's Common Core Standards for grade 4 and can be found by following these steps:
   a.   Log on to PearsonSuccessNet.com
   b.   Click on "Other Resources."
   c.   Click on "Teacher Resources."
   d.   Click on "Transitioning to the CA Common Core State Standards"
   e.   Click on "Teacher Edition-English"

In some instances, you may find that the lesson refers to "transition student pages." These can be found by following these steps:
   a.   Log on to PearsonSuccessNet.com
   b.   Click on "Other Resources" in the 2009 enVision MATH CA version (do not click enVision MATH Common Core)
   c.   Click on "Teacher Resources."
   d.   Click on "Transitioning to the CA Common Core State Standards"
   e.   Click on "Student Lessons-English"

✓ Content which meets Common Core State Standards for Grade 4		Content from Previous Grade Levels	Content for Future Grade Levels

TOPIC 1	NUMERATION		COMMON CORE STATE STANDARDS
1-1	Thousands	✓	4.NBT.1, 4.NBT.2
1-2	Millions	→	Prepares for 5 NBT.1
1-3	Comparing and Ordering Whole Numbers	✓	4.NBT.2
1-4	Understanding Zeros in Place Value	✓	4.NBT.2
1-5	Problem Solving: Make an Organized List	✓	4.NBT.1

TOPIC 2	ROUNDING		COMMON CORE STATE STANDARDS
2-1	Understanding Rounding	✓	4.NBT.3
2-2	Rounding Whole Numbers	✓	4.NBT.3
2-3	Using Mental Math to Add and Subtract	✓	4.OA.3
2-4	Estimating Sums and Differences of Whole Numbers	✓	4.NBT.3, 4.NBT.4
2-5	Problem Solving: Missing or Extra Information	✓	4.NBT.4
2-6	Adding Whole Numbers	✓	4.NBT.4
2-7	Subtracting Whole Numbers	✓	4.NBT.4
2-8	Subtracting Across Zeros	✓	4.NBT.4
2-9	Problem Solving: Draw a Picture and Write an Equation	✓	4.NBT.4

TOPIC 3	MULTIPLICATION AND DIVISION MEANINGS AND FACTS		COMMON CORE STATE STANDARDS
3-1	Meanings of Multiplication	✓	4.OA.1, 4.OA.2
3-2	Patterns for Facts	✓	4.OA5
3-3A	Number Sequences	✓	4.OA.5

	(Use transition student edition pages 2-3)		
3-3	Multiplication Properties	✓	4.OA.1
3-4	3, 4, 6, 7, and 8 as Factors	✓	4.OA.3, 4.OA.4
3-5	Problem Solving: Looking for a Pattern	✓	4.OA.5
3-6	Meanings of Division	✓	4.OA.2, 4.OA.3
3-7	Relating Multiplication and Division	✓	4.OA.1
3-8	Special Quotients	✓	4.OA.2
3-9	Using Multiplication Facts to Find Division Facts	✓	4.OA.2
3-10	Problem Solving: Draw a Picture and Write an Equation (Replace with lesson 3-11A)		Replace with Lesson 3-11A
3-11A	Problem Solving: Draw a Picture and Write an Equation (Use transition student edition pages 4-5)	✓	4.NBT.6, 4.OA.2

TOPIC 4	MULTIPLYING BY 1-DIGIT NUMBERS		COMMON CORE STATE STANDARDS
4-1	Multiplying by Multiples of 10 and 100	✓	4.NBT.1, 4.NBT.5
4-2	Using Mental Math to Multiply	✓	4.NBT.5
4-3	Using Rounding to Estimate	✓	4.NBT.3, 4.NBT.5
5-5	Problem Solving: Act It Out and Use Reasoning (Use lesson 5-5 from topic 5)	✓	4.OA.2, 4.OA.3
4-4	Using and Expanded Algorithm	✓	4.NBT.5
4-5	Multiplying 2-Digit by 1-Digit Numbers	✓	4.NBT.5
4-6	Multiplying 3-Digit by 1-Digit Numbers	✓	4.NBT.5
4-7	Multiplying Greater Numbers by 1-Digit Numbers	✓	4.NBT.5
4-8	Problem Solving: Reasonableness	✓	4.OA.3, 4.NBT.3, 4.NBT.5

TOPIC 5	VARIABLES AND EXPRESSIONS		COMMON CORE STATE STANDARDS
5-1	Variables and Expressions	→	Prepares for 6.EE.2
5-2	Equality	→	Prepares for 6.EE2
5-3	Expressions with Parentheses	→	Prepares for 5.OA.1
5-4	Simplifying Expressions	→	Prepares for 5.OA.1
5-5	Problem Solving: Act it Out and Use Reasoning (Use in topic 4)		

TOPIC 6	Multiplying be 2-Digit Numbers		COMMON CORE STATE STANDARDS
6-1	Using Mental Math to Multiply 2-Digit Numbers	✓	4.NBT.1, 4.NBT.5.1

6-2	Estimating Products	✓	4.NBT.3, 4.NBT.5, 4.NBT.5.1
6-3	Arrays and Expanded Algorithm	✓	4.NBT.5, 4.NBT.5.1
6-4	Multiplying 2-Digit Numbers by Multiples of Ten	✓	4.NBT.5, 4.NBT.5.1
6-5	Multiplying 2-Digit by 2-Digit Numbers	✓	4.NBT.5, 4.NBT.5.1
6-6	Multiplying Greater Numbers by 2-Digit Numbers	✓	4.NBT.5.1
6-7	Problem-Solving: Two Question Problems	✓	4.OA3, 4.NBT.5, 4.NBT.5.1

TOPIC 7	DIVIDING BY 1-DIGIT DIVISORS		COMMON CORE STATE STANDARDS
7-1	Using Mental Math to Divide	✓	4.NBT.1, 4.NBT.6
7-2	Estimating Quotients	✓	4.O.A.3, 4.NBT.6
7-3	Dividing with Remainders	✓	4.NBT.6
7-4	Connecting Models and Symbols	✓	4.NBT.1, 4.NBT.6
7-5	Dividing 2-Digit by 1-Digit Numbers	✓	4.NBT.6
7-6	Dividing 3-Digit by 1-Digit Numbers	✓	4.NBT.6
7-7	Deciding Where to Start Dividing	✓	4.NBT.6
7-8	Zeros in the Quotient	✓	4.NBT.6
7-9	Factors	✓	4.OA.4
7-10	Prime and Composite Numbers	✓	4.OA.4
7-11	Problem Solving: Multiple Step Problems	✓	4.OA.3, 4.NBT.6

TOPIC 8	LINES, ANGLES, SHAPES, AND SOLIDS		COMMON CORE STATE STANDARDS
8-1	Points, Lines, and Planes (Replace with lesson 8-2A)		
8-2A	Points, Lines, and Planes (Use transition student edition pages 6-7)	✓	4.G.1
8-2	Line Segments, Rays, and Angles (Replace with lesson 8-3A)		
8-3A	Line Segments, Rays, and Angles (Use transition student edition pages 8-9)	✓	4.G.1
8-3B	Understanding Angles and Unit Angles (Use transition student edition pages 10-11)	✓	4.MD.5.a, 4.G.1
8-3C	Measuring with Unit Angles (Use transition student edition pages 12-13)	✓	4.MD.5.a, 4.MD.5.b, 4.G.1
8-3D	Measuring Angles (Use transition student edition pages 14-15)	✓	4.MD.5b, 4.MD.6, 4.G.1
8-3E	Adding and Subtracting Angle Measures	✓	4.MD.6, 4.MD.7

	(Use transition student edition pages 16-17)		
8-3	Polygons	✓	4.G.1, 4.G.2
8-4	Triangles	✓	4.G.1, 4.G.2
8-5	Quadrilaterals	✓	4.G.1, 4.G.2
19-2	Line Symmetry (Use lesson 19-2 from topic 19)	✓	4.G.3
19-4	Problem Solving: Draw a Picture (Use lesson 19-4 from topic 19)	✓	4.G.3
8-6	Circles	→	Prepares for 7.G.4
8-7	Solids	→	Prepares for 5.MD.3
8-8	Views of Solids: Nets	→	Prepares for 6.G.4
8-9	Views of Solids: Perspective	→	Prepares for 5.MD.4, 5.MD.5c
8-10	Problem Solving: Make and Test Generalizations	✓	4.OA.5, 4.G.2

CA Topics 10 & 11 will be replaced by CCSS enVision Topics 12 and 13 with new booklets and student materials to arrive at school sites the beginning of November, 2013.
In addition: CCSS Concept Lesson "Amazing Race" can be included. The concept lesson will be found at: http://math.lausd.net, click on PK-12 Professional Development, click on Elementary, click on "Amazing Race" concept lesson.

TOPIC 9	FRACTION MEANINGS AND CONCEPTS		COMMON CORE STATE STANDARDS
9-1	Regions and Sets	←	Reviews 3.NF.1
9-2	Fractions and Division	→	Prepares for 5.NF.3
9-3	Equivalent Fractions	✓	4.NF.1, 4.NF.2
9-4A	Number Lines and Equivalent Fractions (Use transition student edition pages 18-19)	✓	4.NF.1, 4.NF.2
9-4	Fractions in Simplest Form	✓	4.NF.1, 4.NF.2
9-5	Improper Fractions and Mixed Number	✓	4.NF.3.c
9-6	Comparing Fractions	✓	4.NF.2
9-7	Ordering Fractions	✓	4.NF.2
9-8	Problem-Solving: Writing to Explain	✓	4.NF.1, 4.NF.2

TOPIC 10	Addition and Subtraction of Fractions		COMMON CORE STATE STANDARDS
10-1A	Decomposing and Composing Fractions (Use transition student edition pages 20-21)	✓	4.NF.3.a, 4.NF.3.b, 4.NF.3.d

10-1	Adding and Subtracting Fractions with Like Denominators	✓	4.NF.3.a, 4.NF.3.d
10-2	Adding and Fractions with Unlike Denominators	→	Prepares for 5.NF.1
10-3A	Modeling Addition and Subtraction of Mixed Numbers (Use transition student edition pages 22-25.)	✓	4.NF.3.b, 4.NF.3.c
10-3B	Adding Mixed Numbers (Use transition student edition pages 26-27.)	✓	4.NF.3.c
10-3	Subtracting Fractions with Unlike Denominators	→	Prepares for 5.NF.1
10-4A	Subtracting Mixed Numbers (Use transition student edition pages 28-29.)	✓	4.NF.3.c
10-4B	Fractions as Multiples of Unit Fractions: Using Models (Use transition student edition pages 30-31.)	✓	4.NF.4.a
10-4C	Multiplying a Fraction by a Whole Number: Using Models (Use transition student edition pages 32-33)	✓	4.NF.4.b, 4.NF.4c
10-4D	Multiplying a Fraction by a Whole Number: Using Symbols (Use transition student edition pages 34-35.)	✓	4.NF.4.b, 4.NF.4.c
10-4	Problem Solving: Draw a Picture and Write an Equation	→	Prepares for 5.NF.1

TOPIC 11	FRACTION AND DECIMAL CONCEPTS		COMMON CORE STATE STANDARDS
11-1	Decimal Place Value	✓	4.NF.7
11-2	Comparing and Ordering Decimals	✓	4.NF.7
13-5	Problem Solving: Work Backward (Use lesson 13-5 from topic 13)	✓	4.MD.2
11-3A	Using Money to Understand Decimals (Use transition student edition pages 36-37)	✓	4.MD.2, 4.NF.7
11-3	Fractions and Decimals	✓	4.NF.5, 4.NF.6
11-4	Fractions and Decimals on the Number Line (Replace with lesson 11-5A)	✓	
11-5A	Fractions and Decimals on the Number Line (Use transition student edition pages 38-41)	✓	4.NF.5, 4.NF.6
11-5B	Equivalent Fractions and Decimals	✓	4.NF.6

	(Use transition student edition pages 42-45)		
11-5	Mixed Numbers and Decimals on the Number Line	→	
11-6	Problem Solving: Use Objects and Make a Table	→	Prepares for 5.NF.1
12-6	Problem Solving: Try, Check, and Revise (Use Lesson 12-6 from topic 12)	✓	4.MD.2

TOPIC 12	**OPERATING WITH DECIMALS**	✓	**COMMON CORE STATE STANDARDS**
12-1	Rounding Decimals	→	Prepares for 5.NBT..4
12-2	Estimating Sums and Differences of Decimals	→	Prepares for 5.NBT.7
12-3	Modeling Addition and Subtraction of Decimals	→	Prepares for 5.NBT.7
12-4	Adding and Subtracting Decimals	→	Prepares for 5.NBT.7
12-5	Multiplying and Dividing with Decimals	→	Prepares for 5.NBT.7
12-6	Problem Solving: Try, Check, and Revise (Use in Topic 11)		

TOPIC 13	**SOLVING EQUATIONS**		**COMMON CORE STATE STANDARDS**
13-1	Equal or Not Equal	→	Prepares for 6.EE.7
13-2	Solving Addition and Subtraction Equations	→	Prepares for 6.EE.7
13-3	Solving Multiplication and Division Equations	→	Prepares for 6.EE.7
13-4	Translating Words to Equations	→	Prepares for 5.OA.2, 6.EE.6, 6.EE.7
13-5	Problem Solving: Work Backward (Use in Topic 11)		

TOPIC 14	**INTEGERS**		**COMMON CORE STATE STANDARDS**
14-1	Understanding Integers	→	Prepares for 6.NS.6c
14-2	Comparing Integers	→	Prepares for 6.NS.7a
14-3	Ordering Integers	→	Prepares for 6.NS.7a
14-4	Problem Solving: Draw a Picture	→	Prepares for 6.NS.7c

TOPIC 15	**Dividing by 1-Digit Numbers**		**COMMON CORE STATE STANDARDS**
15-1	Customary Measures	✓	4.MD.1, 4.MD.2
15-2A	Changing Customary Units	✓	4.MD.1

	(Use transition student edition pages 46-49)		
15-2	Metric Measures	✓	4.NBT.5.1, 4.MD.1, 4.MD.2
15-3A	Changing Metric Units (Use transition student edition pages 50-53)	✓	4.MD.1
15-3B	Units of Time (Use transition student edition pages 54-55)	✓	4.MD.1, 4.MD.2
15-3C	Solving Measurement Problems (Use transition student edition pages 56-57)	✓	4.MD.2
15-3D	Solving Problems Involving Line Plots (Use transition student edition pages 58-59)	✓	4.MD.2, 4.MD.4
15-3	Perimeter	✓	4.MD.3
15-4	Area of Squares and Rectangles	✓	4.MD.3
15-5	Area of Irregular Shapes	✓	4.OA.5, 4.MD.3
15-6	Same Perimeter, Different Area	✓	4.MD.3
15-7	Same Area, Different Perimeter	✓	4.MD.3
15-8	Problem Solving: Solve a Simpler Problem and Make a Table	✓	4.MD.2

TOPIC 16	Data and Graphs		COMMON CORE STATE STANDARDS
16-1	Data from Surveys	→	Prepares for 6.SP.1
16-2	Interpreting Graphs	←	Reviews 3.MD.3
16-3	Line Plots	←	Reviews 2.MD.9, 3.MD.4
16-4	Mean	→	Prepares for 6.SP.3, 6.SP.5.c
16-5	Median, Mode, and Range	→	Prepares for 6.SP.3
16-6	Problem Solving: Make a Graph	←	Reviews 3.MD.3

TOPIC 17	Data and Graphs		COMMON CORE STATE STANDARDS
17-1	Ordered Pairs	→	Prepares for 5.G.1
17-2	Shapes on Coordinate Grids	→	Prepares for 5.G.2
17-3	Lengths of Horizontal and Vertical Line Segments	→	Prepares for 6.G.3
17-4	Problem Solving: Solve a Simpler Problem	→	Prepares for 6.G.3

TOPIC 18	Formulas and Equations		COMMON CORE STATE STANDARDS
18-1	Formulas and Equations	✓	4.MD.3
18-2	Addition and Subtraction Patterns and Equations	✓	4.OA.5
18-3	Multiplication and Division Patterns and Equations	✓	4.OA.5
18-4	Graphing Equations	➡	Prepares for 5.OA.3
18-5	More Graphing Equations	➡	Prepares for 5.OA.3
18-6	Problem Solving: Make a Table	✓	4.OA.5

TOPIC 19	Congruence and Symmetry		COMMON CORE STATE STANDARDS
19-1	Congruent Figures	➡	
19-2	Line Symmetry (Use in Topic 8)		
19-3	Rational Symmetry	➡	
19-4	Problem Solving: Draw a Picture (Use in Topic 8)		

TOPIC 20	Probability		COMMON CORE STATE STANDARDS
20-1	Finding Combination	➡	
20-2	Outcomes and Tree Diagrams	➡	
20-3	Writing Probability as a Fraction	➡	
20-4	Problem Solving: Use Reasoning	➡	