

John Swett Unified School District (JSUSD) 2009-10
Suggested Pacing Guide for Grade 4
Text: Houghton-Mifflin California Math (2007 Adoption)

Number Of Days	Topics: Content, Textbook Section, Assessments	CA Content Standards
	Trimester 1	
6	Unit 1: Numbers through Millions Chapter 1: Place Value through Millions	
1	Lesson 1.1: Hands On: How Big is 1 Million?	NS 1.1
1	Lesson 1.2: Place Value through Hundred Thousands	NS 1.1
1	Lesson 1.3: Place Value through Hundred Millions	NS 1.1
1	Lesson 1.4: Expanded Notation	NS 1.1
1	Lesson 1.5: Problem Solving Field Trip Chapter 1 Review	NS 3.0, NS 1.1
1	Chapter 1 Test	
6	Unit 1: Numbers through Millions Chapter 2: Order and Round Numbers	
1	Lesson 2.1: Hands On: Compare and Order Whole Numbers	NS 1.2
1	Lesson 2.2: Compare And Order Whole Numbers through Millions	NS 1.2
1	Lesson 2.3: Round Whole Numbers	NS 1.3
1	Lesson 2.4: More on Rounding Whole Numbers	NS 1.3
1	Lesson 2.5: Problem Solving Strategy: Make an Organized List Chapter 2 Review	MR 1.2
1	Chapter 2 Test	

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6	Unit 2: Addition and Subtraction Chapter 3: Addition	
1	Lesson 3.1: Hands On: Estimate and Check	NS 3.0, NS 1.3
1	Lesson 3.2: Addition Properties	AF 1.2, NS 3.1, 3.0
1	Lesson 3.3: Estimate Sums	NS 1.3, NS 3.0, 1.4
1	Lesson 3.4: Add Whole Numbers	NS 3.1, NS 3.0
1	Lesson 3.5: Problem Solving Field Trip Chapter 3 Review	
1	Chapter 3 Test	
6	Unit 2: Addition and Subtraction Chapter 4: Subtraction	
1	Lesson 4.1: Hands On: Model Subtraction from 2.000	NS 3.1
1	Lesson 4.2: Estimate Differences	NS 3.1
1	Lesson 4.3: Subtract Whole Numbers	NS 3.1
1	Lesson 4.4: Subtract Across Zeros	NS 3.1
1	Lesson 4.5: Problem Solving: Too Much or Too Little Info Chapter 4 Review	NS 3.1
1	Chapter 4 Test	
6	Unit 2: Addition and Subtraction Chapter 5: Expressions and Equations	
1	Lesson 5.1: Hands On: Expressions with Parentheses	AF 1.2, AF 1.3
1	Lesson 5.2: Write and Evaluate Expressions	AF 1.2
1	Lesson 5.3: Expressions, Equations, and Inequalities	AF 1.2

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1	Lesson 5.4: Add Equals to Equals	AF 1.2, AF 2.1
1	Lesson 5.5: Problem Solving Strategy: Breaks a Problem Into Parts Chapter 5 Review	AF 1.3, AF 1.2
1	Chapter 5 Test	
7	Unit 2: Multiplication and Division Chapter 6: Relate Multiplication and Division	
1	Lesson 6.1: Hands On: Relate Multiplication and Division	NS 3.2
1	Lesson 6.2: Relate Multiplication and Division	NS 3.2
1	Lesson 6.3: Multiplication Properties and Division Rules	NS 3.2
1	Lesson 6.4: Hands On: Patterns in Multiplication and Division	NS 3.2
1	Lesson 6.5: Division with Remainders	NS 3.2
1	Lesson 6.6: Problem Solving Field Trip Chapter 6 Review	NS 3.2
1	Chapter 6 Test	
1	Trimester 1 Assessment	
	Trimester 2	
6	Unit 3: Multiplication and Division Chapter 7: More Expressions and Equations	
1	Lesson 7.1: Hands On: Expressions with all Four Operations	NS 3.0, AF 1.2, AF 1.3
1	Lesson 7.2: Expressions with all Four Operations	NS 3.0, AF 1.2, AF 1.3
1	Lesson 7.3: Equations and Inequalities with Four Operations	NS 3.0, AF 1.2, AF 1.3
1	Lesson 7.4: Multiply Equals by Equals	AF 2.0, AF 2.2, AF 1.2

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1	Lesson 7.5: Problem Solving Strategy: Write an Expression Chapter 7 Review	NS 3.0, AF 1.2, AF 1.3
1	Chapter 7 Test	
6	Unit 4: Algebra and Functions Chapter 8: Variables	
1	Lesson 8.1: Hands On: Variables	AF 1.1
1	Lesson 8.2: Write and Evaluate Algebraic Expressions	AF 1.1
1	Lesson 8.3: Solve Addition and Subtraction Equations	AF 1.1
1	Lesson 8.4: Solve Multiplication and Division Equations	AF 1.1
1	Lesson 8.5: Problem Solving: Use Equations, Comparison Problems Chapter 8 Review	AF 1.1
1	Chapter 8 Test	
5	Unit 4: Algebra and Functions Chapter 9: Equations with Two Variables	
1	Lesson 9.1: Function Tables	AF 1.5
1	Lesson 9.2: Write Function Rules Using One Variable	AF 1.5
1	Lesson 9.3: Write Function Rules Using Two Variables	AF 1.5
1	Lesson 9.4: Problem Solving Field Trip Chapter 9 Review	
1	Chapter 9 Test	
6	Unit 5: Multiplication Chapter 10: Multiply By 1-Digit Numbers	
1	Lesson 10.1: Hands On: Multiply 2-Digit Numbers By 1-Digit Numbers	NS 3.4
1	Lesson 10.2: Estimate Products	NS 3.4

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1	Lesson 10.3: Multiply Greater Numbers	NS 3.4
1	Lesson 10.4: Multiply with Zeros	NS 3.4
1	Lesson 10.5: Problem Solving Field Trip Chapter 10 Review	
1	Chapter 10 Test	
6	Unit 5: Multiplication Chapter 11: Multiply By 2-Digit Numbers	
1	Lesson 11.1: Hands On: Multiply By Multiples Of 10	NS 3.0, NS 3.3
1	Lesson 11.2: Hands On: Multiply 2-Digit Numbers by 2-Digit Numbers	NS 3.0, NS 3.3
1	Lesson 11.3: Multiply 2-Digit Numbers by 2-Digit Numbers	NS 3.0, NS 3.2, NS 3.3
1	Lesson 11.4: Multiply 3-Digit By 2-Digit Numbers	NS 3.2, NS 3.3
1	Lesson 11.5: Problem Solving Strategy: Guess and Check Chapter 11 Review	
1	Chapter 11 Test	
6	Unit 6: Division And Number Theory Chapter 12: Divide Greater Numbers	
1	Lesson 12.1: Hands On: Model Division	NS 3.4
1	Lesson 12.2: Divide Larger Numbers with Remainders	NS 3.4
1	Lesson 12.3: Hands On: Regroup in Division	NS 3.4
1	Lesson 12.4: Divide Multiples Of 10	NS 3.4
1	Lesson 12.5: Problem Solving Plan: Interpret Remainders Chapter 12 Review	NS 3.4
1	Chapter 12 Test	

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6	Unit 6: Division and Number Theory Chapter 13: Divide 3-Digit Numbers	
1	Lesson 13.1: Hands On: Model 3-Digit Division	NS 3.4, MR 2.3
1	Lesson 13.2: 3-Digit Quotients	NS 3.0, NS 3.4
1	Lesson 13.3: Place the First Digit of the Quotient	NS 3.2, NS 3.4
1	Lesson 13.4: Zeros in the Quotient	NS 3.4
1	Lesson 13.5: Problem Solving Plan: Find an Average Chapter 13 Review	
1	Chapter 13 Test	
6	Unit 6: Division and Number Theory Chapter 14: Number Theory	
1	Vocabulary Lesson 14.1: Hands On: Find Factors of a Number	NS 4.1
1	Lesson 14.2: Divisibility Rules	NS 4.1
1	Lesson 14.3: Prime and Composite Numbers	NS 4.1
1	Lesson 14.4: Factor Trees	NS 4.1
1	Lesson 14.5: Problem Solving Field Trip Chapter 14 Review	NS 4.1
1	Chapter 14 Test	
5	Unit 7: Measurement and Negative Numbers Chapter 16: Temperature and Negative Numbers	
1	Lesson 16.1: Hands On: Negative Numbers on the Number Line	NS 1.8
1	Lesson 16.2: Compare Positive and Negative Numbers	NS 1.8
1	Lesson 16.3: Use Negative Numbers	NS 1.8

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1	Lesson 16.4: Problem Solving Field Trip Chapter 16 Review	NS 1.8
1	Chapter 16 Test	
10	Unit 8: Fractions and Mixed Numbers Chapter 17: Fractions	
2	Lesson 17.1: Hands On: Model Fractions	NS 1.5, NS 1.7
2	Lesson 17.2: Fractional Parts of a Number	NS 1.5, MR 2.3
1	Lesson 17.3: Hands On: Model Equivalent Fractions	NS 1.9, NS 1.7
2	Lesson 17.4: Equivalent Fractions	NS 1.5, NS 1.9
1	Lesson 17.5: Add And Subtract Fractions	NS 1.5, NS 1.7
1	Lesson 17.6: Problem Solving Strategy: Use a Simpler Problem Chapter 17 Review	NS 1.5, MR 2.2
1	Chapter 17 Test	
6	Unit 8: Fractions and Mixed Numbers Chapter 18: Compare and Order Fractions	
1	Vocabulary Lesson 18.1: Hands On: Compare Fractions	NS 1.5
1	Lesson 18.2: Compare and Order Fractions	NS 1.5
1	Lesson 18.3: Write Mixed Numbers and Improper Fractions	NS 1.5
1	Lesson 18.4: Compare And Order Mixed Numbers	NS 1.5
1	Lesson 18.5: Problem Solving Field Trip Chapter 18 Review	
1	Chapter 18 Test	
1	Trimester 2 Assessment	

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Trimester 3		
7	Unit 9: Decimals Chapter 19: Understand Decimals	
1	Lesson 19.1: Hands On: Fractions and Decimals	NS 1.0, NS 1.6
1	Lesson 19.2: Mixed Numbers and Decimals	NS 1.0, NS 1.6
1	Lesson 19.3: Fractions and Decimal Equivalents	NS 1.6, NS 1.7
1	Lesson 19.4: Compare and Order Decimals	NS 1.2, NS 1.9
1	Lesson 19.5: Compare and Order Fractions and Decimals	NS 1.2, NS 1.9
1	Lesson 19.6: Problem Solving Field Trip Chapter 19 Review	NS 3.3, AF 2.1
1	Chapter 19 Test Lesson 24.1: Hands On: Probability and Outcomes	SDAP 2.1
6	Unit 9: Decimals Chapter 20: Add and Subtract Decimals Unit 11: Statistics Chapter 24: Probability	
1	Lesson 20.1: Hands On: Explore Addition and Subtraction of Decimals Lesson 24.2: Find Probability	NS 2.1 SDAP 2.2
1	Lesson 20.2: Round Decimals Lesson 24.3: Hands On: Make Predictions	NS 2.1 SDAP 2.2
1	Lesson 20.3: Estimate Decimal Sums and Differences Lesson 24.4: Represent Outcomes	NS 2.1 SDAP 2.2
1	Lesson 20.4: Add and Subtract Decimals Lesson 24.5: Problem Solving Field Trip Chapter 24 Review	SDAP 2.2 NS 2.1
1	Lesson 20.5: Problem Solving Strategy: Work Backward Chapter 20 Review Chapter 24 Test	NS 2.1
1	Chapter 20 Test	

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5	Unit 10: Graphs and Algebra Chapter 21: Graphs and Ordered Pairs Unit 12: Geometry and Measurement Chapter 25: Plane Figures	
1	Lesson 21.1: Hands On: Plot Points Lesson 21.2: Plot and Name Points on a Grid Lesson 25.1: Hands On: Points, Lines and Line Segments	MG 2.0, MG 2.3 MG 3.1, MG 3.0
1	Lesson 21.3: Graphs of Functions Lesson 25.2: Rays and Angles	MG 2.0, MG 2.1 MG 3.5, MG 3.0
1	Lesson 21.4: Graph Equations Lesson 25.3: Polygons and Quadrilaterals	MG 2.0, MG 2.1 MG 3.8, MG 3.0
1	Lesson 21.5: Problem Solving Strategy: Use A Graph Chapter 21 Review Lesson 25.4: Classify Triangles	MG 2.3, MG 2.1 MG 3.7, MG 3.0
1	Chapter 21 Test Lesson 25.5: Circles	MG 3.2, MG 3.5
7	Unit 10: Graph and Algebra Chapter 22: Integers On Coordinate Grid Unit 12: Geometry and Measurement Chapter 26: Congruence And Symmetry	
1	Lesson 22.1: Hands On: Vocabulary and Graph Ordered Pairs Lesson 25.6: Problem Solving Field Trip: Adventure Playground Chapter 25 Review	MG 2.1
1	Lesson 22.2: Graph Ordered Pairs of Integers Chapter 25 Test	MG 2.1
1	Lesson 22.3: Lengths of Horizontal/Vertical Line Segments Lesson 26.1: Hands On: Line Symmetry Lesson 26.2: Line or Bilateral Symmetry	MG 2.1 MG 3.3 MG 3.4
1	Lesson 22.4: Line Segment in Coordinate Grid Lesson 26.3: Rotational Symmetry Lesson 26.4: Congruent Figures	MG 2.2 MG 3.4
1	Lesson 22.5: Problem Solving Field Trip Chapter 22 Review	SDAP 1.3
1	Chapter 22 Test Lesson 26.5: Problem Solving Strategy: Patterns in the Coordinate Grid Chapter 26 Review	

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1	Chapter 26 Test	
5	Unit 11: Statistics and Probability Chapter 23: Data Unit 12: Geometry and Measurement Chapter 27: Perimeter And Area	
1	Lesson 23.1: Collect and Organize Data Lesson 23.2: Median and Mode Lesson 27.1: Hands On: Model Perimeter and Area	SDAP 1.0, SDAP 1.1, SDAP 1.2 MG 1.2, MG 1.3
1	Lesson 23.3: Double Bar Graphs Lesson 23.4: Read and Understand Line Graphs Lesson 27.2: Use Formula for Perimeter	SDAP 1.3, SDAP 1.0 AF 1.4, MG 1.4
1	Lesson 23.5: Problem Solving Plan: Show Data in Different Ways Chapter 23 Review Lesson 27.3: Use Formula for Area	MR 2.3, SDAP 1.0 MG 1.4, AF 1.4
1	Chapter 23 Test Lesson 27.4: Perimeter and Area of Complex Figures Practice Game: Pick a Figure	MG 1.4, AF 1.4
1	Lesson 27.5: Problem Solving Field Trip	MR 2.3, AF 1.4
6	Unit 11: Statistics and Probability Chapter 24: Probability	
1	Lesson 24.1: Hands On: Probability and Outcomes	SDAP 2.1
1	Lesson 24.2: Find Probability	SDAP 2.2
1	Lesson 24.3: Hands On: Make Predictions	SDAP 2.2
1	Lesson 24.4: Represent Outcomes	SDAP 2.2
1	Lesson 24.5: Problem Solving Field Trip Chapter 24 Review	SDAP 2.2
1	Chapter 24 Test	

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4	Unit 12: Geometry and Measurement Chapter 28: Solid Figures	
1	Lesson 28.1: Vocabulary and Hands On: Use Nets to Build Solid Figures	MG 3.6
1	Lesson 28.2: Solid Figures	MG 3.6
1	Chapter 27 and 28 Review	
1	Chapter 27 and Lesson 28.1 and 28.2 Test	
1	Trimester 3 Assessment	