

Morgan Hill Unified School District
Textbook: Harcourt
Grade 4
Suggested Pacing Guide 2009-2010

# of Days/ Topic	# of Days / Lesson	Trimester I: Understand Numbers and Operations, Data Graphing and Time, Multiplication and Division Facts, Patterns with Factors and Multiples	Resources: Harcourt Chapter/Lesson	CA Content Standard
6		Chapter 16: Patterns with Factors and Multiples	Chapter 16	
	1	Factors and Multiples	16.1	NS 4.1/4.2.
	1	Factor Numbers	16.2	NS 4.1/4.2
	1	Prime and Composite Numbers	16.3	NS 4.1/4.2
	1	Find Prime Factors	16.4	NS 4.1/4.2
	1	Problem Solving Strategy: Find a Pattern	16.5	NS 4.1/4.2
	1	Assessment		
7		Chapter 1: Place Value and Number Sense	Chapter 1	
	1	Benchmark Numbers	1.1	NS1.1
	1	Understand Place Value	1.2	NS1.1
	2	Place Value Through Hundred Thousands	1.3	NS1.1
	2	Place Value Through Millions	1.4	NS1.1
	1	Assessment		
7		Chapter 2: Compare and Order Numbers	Chapter 2	
	2	Compare Numbers	2.1	NS 1.3
	2	Order Numbers	2.2	NS 1.3
	2	Round Numbers	2.4	NS 1.3
	1	Assessment		
9		Chapter 3: Add and Subtract Greater Numbers	Chapter 3	
	2	Add and Subtract 4-Digit Numbers	3.3	NS 3.1
	2	Subtract Across Zeros	3.4	NS 3.1
	2	Add and Subtract Greater Numbers	3.5	NS 3.1
	2	Problem Solving Skill: Estimate or Find Exact Answers	3.6	NS 1.4
	1	Assessment		
4		Chapter 4: Algebra: Use Addition and Subtraction	Chapter 4	
	1	Expressions	4.1	AF 1.2
	1	Use Parentheses	4.2	AF 1.2
	1	Match Words and Expressions	4.3	AF 1.2
	1	Assessment		
7		Chapter 8: Practice Multiplication and Division Facts	Chapter 8	
	1	Relate Multiplication and Division	8.1	NS 3.0/4.0
	1	Multiply and divide Facts Through 5	8.2	NS 3.0/4.0
	1	Multiply and Divide Fact Through 10	8.3	NS 3.0/4.0
	1	Multiplication Table Through 12	8.4	NS 3.0/4.0
	1	Multiply 3 Factors	8.5	NS 3.0/4.0

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	1	Problem Solving Skill: Choose the Operation	8.6	NS 3.0/4.0
	1	Assessment		
7		Chapter 10: Multiply By 1-Digit Numbers	Chapter 10	
	1	Mental Math: Multiplication Pattern	10.1	NS 3.0 MR 2.2
	1	Estimate Products	10.2	NS1.4/3.0
	1	Model Multiplication	10.3	NS 3.0 MR 2.2
	1	Multiply 3-Digit Numbers	10.4	NS 3.0/3.2
	1	Multiply 4-Digit Numbers	10.5	NS 3.0/3.2
	1	Problem Solving Strategy: Write and Equation	10.6	NS 3.0 AF 1.0
	1	Assessment		
6		Chapter 9: Algebra: Use Multiplication and Division Facts	Chapter 9	
	1	Expressions with Parentheses	9.1	AF 1.3
	1	Match Words and Expressions	9.2	AF 1.3
	1	Multiply Equals by Equals	9.3	AF 1.3
	1	Expressions	9.4	AF 1.3
	1	Problem Solving Strategy: Work Backwards	9.7	AF 1.3
	1	Assessment		
1		Chapter 4: Algebra: Use Addition and Subtraction	Chapter 4	
	1	Add Equals to Equals	4.6	AF 2.1
6		Chapter 11: Understand Multiplication	Chapter 11	
	1	Mental Math: Patterns with Multiples	11.1	NS 3.2/3.3
	1	Multiply by Multiples of 10	11.2	NS 3.2/3.3
	1	Estimate Products	11.3	NS 3.2/1.0
	1	Model Multiplication	11.4	NS 3.2 MR 1.2
	1	Problem Solving Strategy: Solve a Simpler Problem	11.5	NS 3.2 MR 1.2
	1	Assessment		
60		Total (59 Days in the 1st Trimester in 2009-2010)		

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# of Days/ Topic	# of Days/ Lesson	Trimester II: Algebra: Use Addition, Subtraction, Multiplication and Division / Understanding Decimals and Fractions / Measurement, Algebra and Graphing / Geometry / Multiply by 1-Digit #'s	Resources: Harcourt Chapter/Lesson	CA Content Standard
6		Chapter 12: Multiply By 2-Digit Numbers	Chapter 12	
	1	Multiply by 2-Digit Numbers	12.1	NS 3.2/3.3
	1	More About Multiplying by 2-Digit Numbers	12.2	NS 3.2/3.3
	1	Multiply Greater Numbers	12.3	NS 3.2/3.3
	1	Practice Multiplication	12.4	NS 3.2/3.3
	1	Problem Solving Skill: Multi-Step Problems	12.5	NS 3.0/3.3
	1	Assessment		
6		Chapter 13: Divide By 1 and 2-Digit Divisors	Chapter 13	
	1	Divide with Remainders	13.1	NS 3.0/3.4
	1	Model Division	13.2	NS 3.2
	1	Division Procedures	13.3	NS 3.2/3.4
	1	Problem Solving Strategy: Predict and Test	13.4	NS 3.2/3.4
	1	Mental Math: Division Patterns	13.5/13.6	NS 3.2/3.4 MR 1.0
	1	Assessment		
7		Chapter 14: Divide By 1-Digit Divisors	Chapter 14	
	1	Place the First Digit	14.1	NS 3.2/3.4
	1	Divide 3-Digit Numbers	14.2	NS 3.2/3.4
	1	Zeros in Division	14.3	NS 3.2/3.4
	1	Divide Greater Numbers	14.4	NS 3.2/3.4
	1	Problem-Solving skill: Interpret the Remainder	14.5	MR 2.6/3.1
	1	Find the Mean	14.6	NS 3.2/3.4
	1	Assessment		
6		Chapter 15: Divide By 2-Digit Divisors	Chapter 15	
	1	Division Patterns to Estimate	15.1	NS 1.4/3.0
	1	Model Division	15.2	NS 3.0
	1	Division Procedures	15.3	NS 3.0
	1	Correcting Quotients	15.4	NS 3.0
	1	Problem Solving Skill: Choose the Operation	15.5	NS 3.0
	1	Assessment		
4		Chapter 17: Understand Fractions	Chapter 17	
	1	Equivalent Fractions	17.2	NS 1.5/1.9
	1	Compare and Order Fractions	17.4	NS 1.9 MR 2.3
	1	Problem Solving Strategy: Make a Model	17.5	NS 1.9 MR 2.3/2.6
	1	Assessment		

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4		Chapter 18: Add and Subtract Fractions and Mixed Numbers	Chapter 18	
	1	Add Like Fractions	18.1	NS 1.5 MR 2.3
	1	Subtract Like Fractions	18.2	NS 1.5 MR 2.3
	1	Add and Subtract Mixed Numbers	18.3	NS 1.5 MR 2.3
	1	Assessment		
3		Chapter 19: Understand Decimals	Chapter 19	
	1	Relate Fractions and Decimals	19.1	NS 1.2/2.1 2.2
	1	Compare and Order Decimals	19.4	NS 1.6/1.7
	1	Relate Mixed Numbers and Decimals	19.6	NS 1.6/1.7
	1	Assessment		
4		Chapter 23: Algebra: Explore Negative Numbers	Chapter 23	
	1	Temperature; Fahrenheit	23.1	NS 1.8
	1	Temperature: Celsius	23.2	NS 1.8
	1	Negative Number	23.3	NS 1.8
	1	Assessment		
4		Chapter 21: Customary Measurement	Chapter 21	
	1	Choose the Appropriate Unit	21.1	MR 1.0/3.2
	1	Measure Fractional Parts	21.2	MR 1.1/2.5
	1	Algebra: Change Linear Units	21.3	AF 1.0/1.5
	1	Assessment		
5		Chapter 5: Collect and Organize Data	Chapter 5	
	1	Collect and Organize Data	5.1	SDAP 1.1
	1	Line Plot	5.3	SDAP 1.1
	1	Compare Graphs	5.5	SDAP 1.1
	1	Problem Solving Strategy: Make a Graph	5.6	SDAP 1.1
	1	Assessment		
5		Chapter 6: Analyze and Graph Data	Chapter 6	
	1	Double-Bar Graphs	6.1	SDAP 1.1
	1	Read Line Graphs	6.2	SDAP 1.1
	1	Make Line Graphs	6.3	SDAP 1.1
	1	Choose and Appropriate Graph	6.4	SDAP 1.1
	1	Assessment		
1		Chapter 5: Collect and Organize Data	Chapter 5	
	1	Find Median and Mode	5.2	SDAP 1.2
55		Total (62 Days in the 2nd Trimester in 2009-2010)		

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# of Days/ Topic	# of Days/ Lesson	Trimester III: Multiply and Divide by 1 and 2-Digit Numbers, Explore Negative Numbers, Perimeter and Area, and Probability	Resources: Harcourt Chapter/Lesson	CA Content Standard
7		Chapter 26: Perimeter and Area of Plane Figures	Chapter 26	
	1	Perimeter of Polygons	26.1	AF 1.4 MG 1.0
	1	Estimate and Find Perimeter	26.2	AF 1.4 MG 1.0
	1	Estimate and Find Area	26.3	MG 1.1/1.4
	1	Relate Area and Perimeter	26.4	MG 1.2/1.3
	1	Relate Formulas and Rules	26.5	AF 1.4 MG 1.0
	1	Problem Solving Strategy: Find a Pattern	26.6	MG 1.0 MR 1.1
	1	Assessment		
5		Chapter 25: Plane Figures	Chapter 25	
	1	Lines, Rays, and Angles	25.1	MG 3.0/3.5 MR 2.4
	1	Line Relationships	25.2	MG 3.0/3.1 MG 3.5 MR 2.4
	1	Congruent Figures and Motion	25.3	MG 3.0/3.3
	1	Symmetric Figures	25.4	MG 3.0/3.4 MR 2.4
	1	Assessment		
7		Chapter 28: Measure and Classify Plane Figures	Chapter 28	
	1	Turns and Degrees	28.1	MG 3.5 MR 2.0/2.3
	1	Measure Angles	28.2	MG 3.5 MR 2.0
	1	Circles	28.3	MG 3.2 MR 2.3
	1	Circumference	28.4	MG 3.2 MR 2.3
	1	Classify Triangles	28.5	MG 3.7 MR 2.3
	1	Classify Quadrilaterals	28.6	MG 3.8 MR 2.3
	1	Assessment		
4		Chapter 27: Solid Figures and Volume	Chapter 27	
	1	Faces, Edges, and Vertices	27.1	MG 3.0/3.6

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	1	Patterns for Solid Figures	27.2	MG 3.0/3.6
	1	Estimate and Find Volume of Prisms	27.3	MG 3.0 MR 2.3
	1	Assessment		
		Standards-Based Study Guide		
6		Chapter 24: Explore the coordinate Grid	Chapter 24	
	1	Use a Coordinate Grid	24.1	MG 2.0/2.1
	1	Length on the Coordinate Grid	24.2	MG 2.2/2.3
	1	Use and Equation	24.3	AF 1.5
	1	Graph an Equation	24.4	AF 1.5 MG 2.1
	1	Problem Solving Skill: Identify Relationships	24.5	MG 2.0/2.1
	1	Assessment		
4		Chapter 29: Outcomes	Chapter 29	
	1	Record Outcomes	29.1	SDAP 2.1
	1	Tree Diagrams	29.2	SDAP 2.1
	1	Problem solving Strategy: Make an Organized List	29.3	SDAP 1.1/2.1
	1	Assessment		
3		Chapter 30: Probability	Chapter 30	
	1	Probability as a Fraction	30.1	SDAP 2.0/2.2
	1	Test for Fairness		
	1	Assessment	30.3	SDAP 2.0/2.2
1		Chapter 29: Outcomes	Chapter 29	
	1	Predict Outcomes of Experiments	29.4	SDAP 2.9
2		Chapter 30: Probability	Chapter 30	
	1	More About Probability	30.2	SDAP 2.0
	1	Problem Solving Skill: Draw Conclusions	30.4	MR 1.1
39		Total (59 Days in the 3rd Trimester in 2009-2010)		