

Morgan Hill Unified School District
Textbook: Harcourt
Grade 5
Suggested Pacing Guide 2009-2010

# of Days/ Topic	# of Days / Lesson	Trimester I: Place Value, Number Theory, Multiplication and Division of Fractions	Resources Harcourt Chapter/Lesson	CA Content Standard
3		Chapter 1: Whole Number Place Value	Chapter 1	
	1	Millions/ Billions	1.1/1.2	NS 1.1
	1	Ordering Numbers/ Rounding Numbers	1.4/3.1	NS 1.1, 1.5
	1	Assessment		
4		Chapter 2: Decimal Place Value	Chapter 2	
	1	Tenths & Hundredths	2.1	NS 1.1
	1	Thousandths & Ten Thousandths	2.2	NS 1.1
	1	Equivalency & Comparing and Ordering Decimals	2.3/2.4	NS 1.1, 1.5
	1	Assessment		
9		Chapter 15: Number Theory Building to Fraction Concepts	Chapter 15	
	1	Divisibility and Primes (use sieve)	15.1/15.5	NS 1.4
	1	Prime Factorization	15.5/15.8 (#14-29)	NS 1.4
	1	Prime Factorization with Exponents	15.8 (#2-13, 30-56)	NS 1.4
	1	GCF (using prime numbers and Venn diagram)	15.3	NS 1.4
	2	Multiples, LCM (Venn diagram / bubble method)	15.2	NS 1.4
	1	Exponents	15.6	NS 1.3, 1.4
	1	Evaluate Expressions w/ Exponents	15.7	NS 1.3
	1	Assessment		
6		Chapter 16: Fraction Concepts	Chapter 16	
	1	Relating Decimals to Fractions	16.1	NS1.2, 1.5
	1	Equivalent Fractions (equivalent values of 1)	16.2	NS 1.5
	1	Identify Fractions on a Number line, Comparing and Ordering Fractions	16.3	NS 1.5
	1	Simplest Form (using decomposition and equivalent values of 1)	16.4	NS 2.3, 2.4, 2.5
	1	Mixed Numbers and Improper Fractions	16.5	NS 2.3, 2.4, 2.5
	1	Assessment		
5		Chapter 21: Multiplication of Fractions	Chapter 21	
	1	Multiply Fractions and Whole Numbers (use repeated addition to derive a rule)	21.1	NS 2.3, 2.4, 2.5
	1	Multiply Fractions (use transparencies and worksheet to derive a rule)	21.2	NS 2.3, 2.4, 2.5
	1	Multiply Fractions and Mixed Numbers	21.3	NS 2.3, 2.4,
	1	Multiply Mixed Numbers	21.4	NS 2.3, 2.4,
	1	Assessment		

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7		Chapter 22: Dividing Fractions	Chapter 22	
	1	(Lab) Model Dividing Fractions	22.1	NS 2.3, 2.4, 2.5
	2	Methods for Dividing Fractions (three different methods)	22.2	NS 2.3, 2.4, 2.5
	1	Dividing Whole Numbers by Fractions	22.3	NS 2.3, 2.4, 2.5
	1	Dividing Fractions by Fractions	22.4	NS 2.3, 2.4, 2.5
	1	Problem Solving	22.5	NS 2.3, 2.4, 2.5
	1	Assessment		
8		Chapter 19-20: Addition and Subtraction of Fractions	Chapters 19,20	
	1	Add / Subtract Fractions w/ Like Denominators	19.1	NS 2.3, 2.4, 2.5
	1	Adding and Subtracting Like Fractions	19.2	NS 2.3
	1	Adding Unlike Fractions	19.3	NS2.3
	1	Add / Subtract Fractions w/ Unlike Denominators (find LCM using bubble method)	19.4/19.5	NS 2.3, 2.4, 2.5
	1	Add / Subtract Fractions Using LCM (use LCD, not product of denominators to emphasize answers in simplest form)	19.6	NS 2.3, 2.4, 2.5
	1	Problem Solving	19.7	NS 2.3, 2.4, 2.5
	1	Add and Subtract Mixed Numbers (show mixed numbers as improper fractions as well)	20.3/20.4	NS 2.3, 2.4, 2.5
	1	Assessment		
8		Chapter 3-4: Add and Subtract Whole Numbers and Decimals	Chapters 3,4	
	1	Round Whole Numbers (start with number line)	3.1	NS 1.1
	1	Estimate Sums and Differences	3.2	NS 1.1
	1	Adding/Subtracting Whole Numbers	3.4	NS 1.1
	1	Rounding/Estimating Decimal Values	4.1/4.2	NS 1.1, 2.1
	1	Add and Subtract Decimals	4.3	NS 2.1
	1	Zeros in Subtraction	4.4	NS 2.1
	1	Problems Solving (estimating vs. exact answers)	4.5	NS 2.1, MR 2.1, 2.5, 3.1
	1	Assessment		
3 1		Study Guide for the Trimester 1 Final Trimester I Bench-Mark Assessment (Final)		
54		Total (59 days in the 1st trimester in 2009-2010)		

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# of Days/Topic	# of Days/Lesson	Trimester II: Whole Number & Decimal Operations, Integers, Algebra Properties, Percents	Resources Harcourt Chapter/Lesson	CA Content Standard
6		Chapter 9: Multiplication of Whole Number (Note: Traditional Algorithm is embedded)	Chapter 9	Prep for NS 2.1 & MG
	1	Base 10 Area Models for Double Digit Multiplication Using Manipulatives (Concrete)	LAB	1.2;
	1	Base 10 Area Models for Double Digit Multiplication Drawing the Models	9.3	4 th grade Standard Review
	3	Generic Area Model for Larger Numbers Partial Product Method w/o Regrouping Standard Algorithm w/ Regrouping	9.4	
	1	Assessment		
6		Chapter 10: Multiplication of Decimals and Whole Numbers	Chapter 10	
	1	Multiply Decimals by Whole Numbers Using Base Ten Area Model	10.1	NS 2.1
	1	Patterns in Decimal Factors and Products	10.2	NS 2.1
	1	Patterns in Decimals Using Area Models	10.3	NS 2.1
	1	Decimal Placement w/ Multiplication	10.4	NS 2.1
	1	Zeros in the Product	10.5	NS 2.1
	1	Assessment		
4		Chapter 11: Division of Whole Numbers	Chapter 11	
	1	Estimating Quotients / 3 Digit Division Using Partial Quotients	11.1/11.2	NS 2.2
	1	Evaluating Expressions and Equations	11.5	NS 2.2
	1	Interpret the Remainder	11.6	NS 2.2
	1	Assessment		
7		Chapter 12: Division of 2 digit Numbers	Chapter 12	
	1	Patterns in Division	12.1	
	1	Division Practice (Subtraction Method or Ladder)	Teacher Lesson	NS 2.2
	1	Division Practice (Traditional Algorithm)	Teacher Lesson	NS 2.2
	1	Division with Decimal Remainders (Subtraction Method or Ladder)	Teacher Lesson	NS 2.1, 2.2
	1	Division with Decimal Remainders (Traditional Algorithm)	Teacher Lesson	NS2.1, 2.2
	1	Problem Solving: Predict and Test	12.6	NS 2.2
	1	Assessment		
6		Chapter 23: Integers	Chapter 23	
	1	Understand Integers (Emphasize Zero Pairs)	23.1	NS 2.1 NS 1.5
	1	Compare and Order Integers (Emphasize Zero Pairs)	23.2	NS 2.1 NS 1.5
	1	Add Integers (number lines and tile spacers)	23.3 Teacher Lesson	NS 2.1 NS 1.5

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	1	Subtracting Integers (number lines and tile spacers)	23.4/23.55 Teacher Lesson	NS 2.1 NS 1.5
	1	Multiplying Integers	Teacher Lesson	NS 2.0
	1	Assessment		
6		Chapter 5: Algebra Properties	Chapter 5	
	1	Expressions and Variables (writing Expressions)	5.1	AF 1.2
	1	Equations and Variables (writing Equations)	5.2	AF 1.2
	1	Addition Properties / Identity Properties	5.4	AF 1.2
	1	Solving Equations (use rule of equality)	5.3	AF 1.2
	1	Using Formulas	5.5	AF 1.2
	1	Assessment		
4		Chapter 6: Algebra Properties (Multiplication)	Chapter 6	
	1	Evaluating Expressions (use inverse operations)	6.1 (use 6.2 as a warm-up each day of unit)	AF 1.2
	1	Commutative / Associative Property	6.3	AF 1.2
	1	Distributive Property	6.4 Teacher Lesson	AF 1.2, 1.3
	1	Assessment		
8		Chapter 13-14: Dividing Decimals	Chapter 13,14	
	1	Fractions as Division Expressions	13.5	NS 2.1, 2.2
	2	Dividing Decimals by Whole Numbers (rewrite as fractions 1 st , then use Subtraction Method)	13.3	NS 2.1, 2.2, 2.5
	2	Dividing Decimals by Decimals (rewrite as fractions to clarify “rule” about moving decimals)	14.3	NS 2.1, 2.2, 2.5
	1	Assessment		
8		Chapter 18: Percent	Chapter 18	
	1	Percent Concept (% = “divided by 100”)	18.1	NS 1.0, 1.2, MR 2.0, 2.3
	1	Relating Percents to Fractions		NS 1.0, 1.2
	1	Relating Percents to Decimals	18.2	NS 1.0, 1.2
	1	Relate Fractions to Decimals to Percents	18.3	NS 1.0, 1.2
	1		18.4	
	1	Figuring Percent of a Number	18.5	NS 1.0, 1.2
	1	Problem Solving	18.6	NS 1.0, 1.2, SDP 1.3
	1	Assessment		
3		Study Guide for Trimester 2 Final		
1		Trimester II Bench-Mark Assessment (Final)		
59		Total (62 days in the 2nd Trimester in 2009-2010)		

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# of Days/ Topic	# of Days/Lesson	Trimester III: Coordinate Grids, Geometry (lines/angles, perimeter, area, surface area and volume), analyze data and graphs, ratios/proportions, probability, measurement conversions, graphs	Resources Harcourt Chapter/Lesson	CA Content Standard
6		Chapter 24: Coordinate Grids	Chapter 24	
	1	Functions / Graphing Integers	24.1	SDP 1.4, 1.5 AF 1.4
	1	Graphing Integers	24.2	SDP 1.4, 1.5 AF 1.4
	1	Graphing Equations (by plugging in values)	24.3	SDP 1.4, 1.5 AF 1.4
	1	Creating Function Tables from Equations	Teacher Lesson	SDP 1.4, 1.5
	1	Creating Equations from Function Tables	Teacher Lesson	AF 1.4
	1	Assessment		
6		Chapter 25-26: Two Dimensional Geometry Vocabulary Building	Chapters 25,26	
	1	Measure / Draw Angles (use protractors)	25.1/25.2	MG 2.1
	1	Find Sums of Angles in Triangles and Quadrilaterals	25.3	MG 2.2
	1	Circle Vocabulary (LAB)	25.4	
	1	Identify Triangles & Angles	26.1	MG 2.1
	1	Quadrilaterals	26.2	MG 2.1
	1	Assessment		
6		Chapter 28: Two Dimensional Geometry Calculations (Area and Perimeter)	Chapter 28	
	1	Perimeter	28.1	MG 1.4
	1	Area of Squares, Rectangles and Parallelogram	28.3/28.6	MG 1.1
	1	Area and Perimeter Practice (understand the difference in their units)	28.4	MG 1.4
	1	Area of Triangles	28.5	MG 1.1
	1	Area of Parallelograms	28.6	MG 1.1
	1	Assessment		
6		Chapter 29: Three Dimensional Geometry	Chapter 29	
	1	Nets for Solid Figures	(LAB)/29.1 Teacher Lesson	MG 1.2, 2.3
	1	Surface Area (textbook too basic to satisfy standard requirement)	29.2 Teacher Lesson	MG1.2, 2.3
	2	Volume	29.3	MG 1.3
	1	Perimeter, Area, and Volume	29.4	MG 1.4
	1	Assessment		
3		Standards-Based Study Guide		
4		Chapter 25-28: Geometry Previews for 6th grade	Chapter 25,28	

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	1	Congruent and Similar Figures (set up for ratios lessons)	25.5	MG 2.0
	1	Symmetry	25.6	MG 2.0
	1	Circumference vs. Perimeter	28.2	AF 1.0, 1.2 MG 1.4 MR 1.1, 2.0, 2.3, 2.5, 3.3
	1	Review /Assessment		
6		Chapter 17: Ratios (Add in concepts of Proportion-no cross-multiplication please!)	Chapter 17	
	1	Hands On: Understanding Ratios	17.1	MR 1.1, 2.0, 3.0, 3.2, 3.3
	1	Express Ratios	17.2	MR 2.3, 3.0, 3.2, 3.3
	1	Equivalent Ratios	17.3	MR 1.0, 2.0, 3.0, 3.2
	1	Scale Drawings	17.4	MR 2.3, 3.0, 3.2
	1	Problem Solving Skill (too much/too little)	17.5	MR 1.0, 1.1, 2.0, 2.3, 2.4, 2.6, 3.0, 3.2
	1	Review /Assessment		
6		Chapter 30: Probability- Review Fraction Concepts	Chapter 30	
	1	Hands On: Probability	30.1	MR 2.3, 2.4, 3.0, 3.2, 3.3
	1	Outcomes	30.2	MR 1.0, 2.3, 2.4, 3.2, 3.3
	1	Probability Expressed as a Fraction	30.3	MR 2.0, 2.2, 2.3, 2.4, 3.2
	1	Compare Probabilities	30.4	MR 1.0, 2.0, 2.3, 2.4, 3.2
	1	Problem Solving Strategy (making an organized list)	30.5	MR 1.0, 1.1, 2.3, 2.6, 3.2,
	1	Review /Assessment		
6		Chapter 7: Analyze Graphs	Chapter 7	
	1	Range	7.1	SDP1.1
	1	Mean (concrete model)	7.2	SDP1.1
	1	Mean (semi-concrete/abstract algorithm)		
	1	Median/Mode	7.3	SDP1.1
	1	Analyze Graphs	7.5	SDP1.2
	1	Review/Assessment		

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6		Chapter 8: Graphs	Chapter 8	
	1	Choose a Reasonable Scale	8.1	SDAP 1.0, 1.2
	1	Problem Solving Strategy (making a graph)	8.2	SDAP 1.0, 1.2, 1.3
	1	Graph Ordered Pairs	8.3	SDAP 1.4, 1.5
	1	Make Line Graphs	8.4	SDAP 1.0, 1.2
	1	Choose the Appropriate Graph	8.6	SDAP 1.0, 1.2
	1	Review /Assessment		
5		Chapter 27: Measurement Conversions - Review Place Value Concepts with Metric	Chapter 27	
	1	Hands On: Metric Length	27.2	MR 2.0, 2.3, 2.5, 3.2
	1	Change Linear Units	27.3	MR 1.0, 1.1, 2.0, 2.3, 3.0, 3.2
	1	Metric Capacity and Mass	27.5	MR 1.0, 1.1, 2.0, 3.0, 3.2
	1	Time	27.6	MR 2.0, 3.0, 3.2, 3.3
	1	Review/Assessment		
3 1		Study Guide for Trimester 3 Final Trimester III Bench-Mark Assessment (Final)		
64		Total (59 days in the 3rd Trimester in 2009-2010)		