

Grade 4 Math Scope and Sequence

	FARMINGDALE UNION FREE SCHOOL DISTRICT				
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	Grade 4 Math Scope and Sequence				
Textbook:	Harcourt Math NY Edition				
	Grade 4				
DATE	LESSON OBJECTIVE	CONTENT STRAND	TEACHER EDITION	VOCABULARY	ADDITIONAL ACTIVITIES
	Unit 1: Understand Whole Numbers and Operations				
	Chapter 1: Place Value and Number Sense				
	1.1 How do we read, write and identify the value of whole numbers?	4N1 4N4 5N1 5N3	pp. 2-3	digit	Alternative Teaching Strategy p. 2B Writing in Mathematics p. 2B Early Finishers p. 2B
	1.2 How do we read, write and identify the place value of whole numbers through hundred thousands?	4N2 4N4 5N1 5N3	pp. 4-5	period	Alternative Teaching Strategy p. 4B ESOL/ESL p. 4B
	1.3 How do we read, write and identify the place value of whole numbers through millions?	4N2 4N4 5N1 5N3	pp. 6-9	millions	Alternative Teaching Strategy p. 6B
	1.4 How do we use a benchmark to give meaning to a number?	4N27	pp. 10-11	benchmark	Alternative Teaching Strategy p. 10B <u>Counting on Frank</u> by Rod Clement
	1.5 How do we solve problems using an appropriate skill such as <i>use a graph</i> ?	4S3	pp. 12-13	pictograph	Reading Strategy p. 12B
	Chapter 2: Compare and Order Whole Numbers				
	2.1 How do we use number lines and place value to compare numbers? (2 days)	4N3 4A2 5N2	pp. 20-23	compare, place value	Alternative Teaching Strategy p. 20B English Language Learners p. 20B Early Finishers p. 20B

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	2.2 How do we use number lines and place value to order numbers through millions?	4N3 4A2 5N2	pp. 24-27	order	Alternative Teaching Strategy p. 24B Writing in Mathematics p. 24B
	2.3 How do we solve problems using the strategy <i>make a table</i> ?	4S3	pp. 28-29		Alternative Teaching Strategy p. 28B Reading Strategy p. 28B
	2.4 How do we round whole numbers to a given place value? (2 days)	4N26	pp. 30-33	round	Alternative Teaching Strategy p. 30B ESOL/ESL p. 30B Early Finishers p. 30B
	Chapter 3: Add and Subtract Whole Numbers				
	3.1 How do we use mental math strategies to find sums and differences? (2 days)	4N14	pp. 40-43	difference, sum	Alternative Teaching Strategy p. 40B
	3.2 How do we estimate sums and differences by rounding?	4N14 4N27	pp. 44-47	estimate, round	Alternative Teaching Strategy p. 44B Early Finishers p. 44B
	3.3 How do we add and subtract to 4-digit numbers?	4N14 4N27	pp. 48-49		Alternative Teaching Strategy p. 48B Special Needs p. 48B Social Studies Connection p. 48B
	3.4 How do we subtract whole numbers with zero and regrouping?	4N14 4N27 4A2	pp. 50-51		Alternative Teaching Strategy p. 50B Advanced Learners p. 50B
	3.5 How do we add and subtract numbers with regrouping through hundred thousands? (2 days)	4N15 4A2	pp. 52-55		Alternative Teaching Strategy p. 52B Early Finishers p. 52B
	3.6 How do we solve problems by deciding whether to estimate or find exact answers?	4N14 4N26 4N27 4M8	pp. 56-57		Science Connection p. 56B Early Finishers p. 56B
	Chapter 4: Algebra: Use Addition and Subtraction				
	4.1 How do we write and evaluate addition and subtraction expressions? (2 days)	4A1 5A1 5A2 5A3	pp. 64-67	expression, parentheses, variable	Alternative Teaching Strategy p. 64B Science Connection p. 64B Advanced Learners p. 64B

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DATE	LESSON OBJECTIVE	CONTENT STRAND	TEACHER EDITION	VOCABULARY	ADDITIONAL ACTIVITIES
	4.2 How do we identify and use the properties of addition?	4N14	pp. 68-69	Associative Property, Commutative Property, Identity Property	Writing in Mathematics p. 68B Advanced Learners p. 68B
	4.3 How do we write and solve addition and subtraction equations using mental math? (day 1 of 2)	4A1 5A4	pp. 70-73	equation	Writing in Mathematics p. 70B Advanced Learners p. 70B
	4.3 How do we write and solve addition and subtraction equations using mental math? (day 2 of 2)	4A1 5A4	pp. 70-73	equation	Writing in Mathematics p. 70B Advanced Learners p. 70B
	4.4 How do we find a rule and show the rule by writing an equation with variables?	4A1 4A5 5A4	pp. 74-75		Alternative Teaching Strategy p. 74B Advanced Learners p. 74B
	4.5 How do we keep an equation equal by adding the same amount to both sides?	4A1 5A4	pp. 76-79		Alternative Teaching Strategy p. 76B Advanced Learners p. 76B
	4.6 How do we solve problems by using the strategy <i>act it out</i> ?	4N14 4A1 5A4	pp. 80-81		Alternative Teaching Strategy p. 80B Reading Strategy p. 80B Career Connection p. 80B
	Review		pp. 14-17 pp. 34-37 pp. 58-61 pp. 82-85		
	Getting Ready for the NY State Test		pp. 88-89		
	Unit Test				
	Unit 2: Time, Data and Graphing				
	Chapter 5: Understand Time				
	5.1 How do we read and write time to the nearest minute and second?	3M9	pp. 96-97	minute, seconds	Advanced Learners p. 96B
	5.2 How do we calculate elapsed time using clocks and schedules? (2 days)	4M9 5M7	pp. 98-101	A.M., elapsed time, P.M.	Alternative Teaching Strategy p. 98B
	5.3 How do we solve problems by using the skill <i>sequence information</i> ?	4M9 5M7	pp. 102-103		Reading Strategy p. 102B Social Studies Connection p. 102B
	5.4 How do we find elapsed time using a calendar? (day 1 of 2)	4M10	pp. 104-107	century, decade	Language Arts Connection p. 104B
	5.4 How do we find elapsed time using a calendar? (day 2 of 2)	4M10	pp. 104-107	century, decade	Language Arts Connection p. 104B

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DATE	LESSON OBJECTIVE	CONTENT STRAND	TEACHER EDITION	VOCABULARY	ADDITIONAL ACTIVITIES
	Chapter 6: Collect and Organize Data				
	6.1 How do we collect and organize data by using frequency tables?	4S3 4S6	pp. 114-117	cumulative frequency, data, frequency, survey, tally	Career Connection p. 114B
	6.3 How do we read and organize data in line plots?	4S6 5S2z	pp. 122-123	line plot, outlier, range	Alternative Teaching Strategy p. 122B
	6.5 How do we compare data in graphs using a variety of scales?	4S3 4S6	pp. 126-127	interval, scale	Alternative Teaching Strategy p. 126B Health Connection p. 126B
	6.6 How do we solve problems by using the strategy <i>make a graph</i> ?	4S3 4S6	pp. 128-129	pictograph	Reading Strategy p. 128B
	Chapter 7: Analyze and Graph Data				
	7.2 How do we read line graphs?	4S4 4S6	pp. 138-139	line graph, range, trends	ESOL/ESL p. 138B
	7.3 How do we make line graphs?	5S2	pp. 140-141		Alternative Teaching Strategy p. 140B
	7.6 How do we draw conclusions using graphs?	4S6	pp. 148-149		Alternative Teaching Strategy p. 148B Reading Strategy p. 148B Advanced Learners p. 148B
	Review		pp. 108-111 pp. 130-133 pp. 150-153		
	Getting Ready for the NY State Test		pp. 156-157		
	Unit Test				
	Unit 3: Multiplication and Division Facts				
	Chapter 8: Practice Multiplication and Division Facts				
	8.1 How do we relate multiplication and division?	4N17	pp. 164-165	fact family, factor, inverse operations, product, quotient	Alternative Teaching Strategy p. 164B Vocabulary Development p. 164B
	8.2 How do we multiply and divide facts from 0 through 5?	4N16 4N17	pp. 166-167		Alternative Teaching Strategy p. 166B Advanced Learners p. 166B

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DATE	LESSON OBJECTIVE	CONTENT STRAND	TEACHER EDITION	VOCABULARY	ADDITIONAL ACTIVITIES
	8.3 How do we multiply and divide facts from 6 through 10?	4N16	pp. 168-171		Alternative Teaching Strategy p. 168B Science Connection p. 168B
	8.4 How do we write multiplication facts through 12?	4N17	pp. 172-173	multiple	Alternative Teaching Strategy p. 172B Early Finishers p. 172B
	8.5 How do we multiply two or more factors using properties of multiplication?	4N6	pp. 174-175	Associative Property, Commutative Property, Identity Property, Zero Property	Alternative Teaching Strategy p. 174B Special Needs p. 174B Advanced Learners p. 174B
	8.6 How do we choose the correct operation?	4N15	pp. 176-177		Alternative Teaching Strategy p. 176B Reading Strategy p. 176B ESOL/ESL p. 176B
	Chapter 9: Algebra: Use Multiplication and Division Facts				
	9.3 How do we write and evaluate expressions and equations with variables?	4A1 5A2 5A3	pp. 188-191	equation, variable	Alternative Teaching Strategy p. 188B Career Connections p. 188B Advanced Learners p. 188B
	9.4 How do we solve problems using the strategy <i>work backward</i> ?	4N15 4A1 5A2	pp. 192-193		Alternative Teaching Strategy p. 192B Reading Strategy p. 192B Language Arts Connection p. 192B
	9.5 How do we keep both sides of an equation equal by using multiplication and division?	4N15 4N16 4A5	pp. 194-197		Alternative Teaching Strategy p. 194B Advanced Learners p. 194B
	9.6 How we find a rule and extend a pattern when input and output numbers are given?	4A5	pp. 198-199		Alternative Teaching Strategy p. 198B
	Review		pp. 178-181 pp. 200-203		
	Getting Ready for the NY State Test		pp. 206-207		
	Unit Test				
	Unit 4: Multiply by 1-and 2-Digit Numbers				
	Chapter 10: Multiply by 1-digit Numbers				

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DATE	LESSON OBJECTIVE	CONTENT STRAND	TEACHER EDITION	VOCABULARY	ADDITIONAL ACTIVITIES
	10.1 How do we multiply mentally using basic facts and patterns?	4N20 4A1	pp. 214-215	factor, product	Alternative Teaching Strategy p. 214B Special Needs p. 214B Early Finishers p. 214B
	10.2 How do we estimate products by using rounding and compatible numbers?	4N18 4N26	pp. 216-217	compatible numbers	Alternative Teaching Strategy p. 216B
	10.3 How do we multiply 2-digit numbers by 1-digit numbers?	4N18 4N27 4A2 4A3	pp. 218-221		Alternative Teaching Strategy p. 218B Advanced Learners p. 218B
	10.4 How do we multiply 3-and 4-digit numbers by 1-digit numbers?	4N5 4N16 4N27 4A2	pp. 222-225		Alternative Teaching Strategy p. 222B
	10.5 How do we multiply numbers with zeros by 1-digit numbers?	4N16 4N27	pp. 226-227		Alternative Teaching Strategy p. 226B Vocabulary Review p. 226B Advanced Learners p. 226B
	10.6 How do we solve problems by using the strategy <i>write an equation</i> ?	4A1 4N15	pp. 228-229		Reading Strategy p. 228B Science Connection p. 228B
	Chapter 11: Multiply by 10's				
	11.1 How do we write products of whole numbers by using basic facts and patterns?	4N20 4A1 4A4	pp. 236-237	factor, multiple, product	Alternative Teaching Strategy p. 236B Special Needs p. 236B Science Connection p. 236B
	11.3 How do we write products of 2 digit whole numbers by multiples of 10?	4N20, 4A1	pp.240-241		Alternative Teaching Strategy p. 240b
	11.4 How do we estimate products by rounding factors?	4N19 4N26 4N27	pp. 242-243	estimate, round	Alternative Teaching Strategy p. 242B Writing in Mathematics p. 242B
	Chapter 12: Multiply by 2-Digit Numbers				
	12.1 How do we write estimates and products of 2-digit whole number factors?	4N19 4N27	pp. 252-255	estimate, product	Science Connection p. 252B
	12.3 Do we choose mental math, paper and pencil or a calculator to find products?	4N16 4N27	pp. 258-259		Advanced Learners p. 258B

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DATE	LESSON OBJECTIVE	CONTENT STRAND	TEACHER EDITION	VOCABULARY	ADDITIONAL ACTIVITIES
	12.4 How do we practice multiplying dollar amounts by 2-digit numbers?	4N16 4N27 4A1	pp. 260-261		Alternative Teaching Strategy p. 260B
	12.5 How do we solve multistep problems?	4N15 4N27 4A1	pp. 262-263	multistep problem	Alternative Teaching Strategy p. 262B Reading Strategy p. 262B ESOL/ESL p. 262B Advanced Learners p. 262B
	Review		pp. 230-233 pp. 246-249 pp. 264-267		
	Getting Ready for the NY State Test		pp. 270-271		
	Unit Test				
	Unit 5: Divide by 1-and 2-Digit Divisors				
	Chapter 13: Understand Division				
	13.1 How do you divide numbers that do not divide evenly?	4N21	pp. 278-279	division, divisor, remainder	Alternative Teaching Strategy p. 278B
	13.2 How do you model division using base-ten blocks?	4N21	pp. 280-281		Alternative Teaching Strategy p. 280B Advanced Learners p. 280B
	13.3 How do you divide using division procedures?	4N17 4N21	pp. 282-285	dividend, quotient	Alternative Teaching Strategy p. 282B Vocabulary Strategy p. 282B
	13.4 How do you solve problems using the strategy <i>predict and test</i> ?	4N15	pp. 286-287		Alternative Teaching Strategy p. 286B Reading Strategy p. 286B
	13.5 How do you use basic facts and patterns to find quotients mentally?	4N20 4A1	pp. 288-289		Alternative Teaching Strategy p. 288B Special Needs p. 288B Early Finishers p. 288B
	Chapter 14: Divide by 1-Digit Divisors				
	14.1 How do you use compatible numbers to estimate quotients?	4N27	pp. 296-297	compatible numbers, division, estimate, quotient	Alternative Teaching Strategy p. 296B Writing in Mathematics p. 296B Early Finishers p. 296B
	14.2 How do you use place value to place the first digit in a quotient and to decide what each digit should be?	4N16 4N26 5N17	pp. 298-299		Alternative Teaching Strategy p. 298B Art Connection p. 298B

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	14.3 How do you divide 3-digit numbers by a 1-digit number?	4N21 5N17 5A3	pp. 300-301	remainder	Alternative Teaching Strategy p. 300B
	14.6 How do you interpret the remainder in a division problem?	4N22	pp. 308-309		Reading Strategy p. 308B
	Chapter 15: Divide by 2-Digit Divisors				
	15.1 How do you estimate quotients using basic facts and patterns?	4N20 4N26	pp. 316-317	estimate, quotient	Alternative Teaching Strategy p. 316B Advanced Learners p. 316B
	15.5 How do you solve problems using the skill <i>choose the operation</i> ?	4N15	pp. 326-327		Reading Strategy p. 324B
	Chapter 16: Number Theory				
	16.1 How do you use divisibility rules for 2, 3, 4, 5, 9 and 10?	4N16	pp. 336-337	divisible	Alternative Teaching Strategy p. 336B
	16.2 How do you find factors and multiples using arrays and number lines?	4N16,3N21	pp. 338-341	factor, multiple	Alternative Teaching Strategy p. 338B Advanced Learners p. 338B
	16.4 How do you solve problems using the strategy <i>find a pattern</i> ?	4A4	pp. 346-347		Reading Strategy p. 346B Social Studies Connection p. 346B
	Review		pp. 290-293 pp. 310-313 pp. 330-333 pp. 350-353		
	Getting Ready for the NY State Test				
	Unit Test				
	Unit 6: Geometry and Algebra				
	Chapter 17: Lines, Rays and Angles				
	17.1 How do you identify and draw points, lines, line segments, rays and planes?	4G2	pp. 364-365	geometry, line, line segment, plane, point, ray	Advanced Learners p. 364B
	17.4 How do you use the strategy <i>draw a diagram</i> to solve problems?	4N15	pp. 372-373		Alternative Teaching Strategy p. 372B Reading Strategy p. 372B
	Chapter 18: Plane Figures				

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	18.1 How do you identify polygons and to classify polygons as regular or not regular?	4G1	pp. 380-381	hexagon, octagon, pentagon, polygon, regular polygon, quadrilateral, triangle	Early Finishers p. 380B
	18.2 How do you classify triangles by the length of their sides and by the measures of their angles?	4G1 5G6	pp. 382-383	acute angle, equilateral triangle, isosceles triangle, obtuse angle, right angle, scalene triangle	Alternative Teaching Strategy p. 382B Advanced Learners p. 382B
	18.3 How do you identify and classify quadrilaterals?	4G1 5G4	pp. 384-387	parallelogram, rectangle, rhombus, square, trapezoid	Alternative Teaching Strategy p. 384B Fine Arts Connection p. 384B
	18.4 How do you use the strategy <i>draw a diagram</i> to solve problems?	4G1	pp. 388-389	Venn diagram	Alternative Teaching Strategy p. 388B
	18.5 How do you draw and identify the parts of circles?	4G2	pp. 390-391	circle, center, chord, compass, diameter, radius	Alternative Teaching Strategy p. 390B Advanced Learners p. 390B
	Chapter 19: Motion Geometry				
	19.1 How do you relate angle measures to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and complete turns and how do you identify line and rotational symmetry in geometric shapes?	5G11, 3G5	pp. 398-401	angle, circle, line symmetry, ray, rotational symmetry	Alternative Teaching Strategy p. 398B Music Connection p. 398B
	19.2 How do you identify congruent and similar figures?	5G2 5G9	pp. 402-403	congruent, similar	Alternative Teaching Strategy p. 402B
	19.3 How do you use the problem solving strategy <i>make a model</i> to solve problems?		pp. 404-405		Alternative Teaching Strategy p. 404B Special Needs p. 404B

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	19.4 How do you identify and predict the results of translations, reflections and rotations?		pp. 406-409	reflection, rotation, transformation, translation	Special Needs p. 406B Early Finishers p. 406B
	19.5 How do you identify shapes and mixed shapes that tessellate?	4A4	pp. 410-411	tessellation	Alternative Teaching Strategy p. 410B Art Connection p. 410B <u>Sky and Water, I</u> by M.C. Escher Advanced Learners p. 310B
	19.6 How do you identify and extend geometric patterns?	4A4	pp. 412-413		Alternative Teaching Strategy p. 412B Advanced Learners p. 412B
	Chapter 20: Algebra: Explore Negative Numbers and Graphing				
	20.5 How do you find whole numbers that make an inequality true? (Eliminate negative numbers)	4A3	pp. 428-429	inequality	Alternative Teaching Strategy p. 428B Vocabulary Strategy p. 428B Advanced Learners p. 428B
	Review		pp. 374-377 pp. 392-395 pp. 414-417 pp. 432-435		
	Getting Ready for the NY State Test		pp. 438-439		
	Unit Test				
	Unit 7: Fractions and Probability				
	Chapter 21: Understanding Fractions				
	21.1 How do we read and write fractions?	4N7	pp. 446-447	denominator, fraction, numerator	Advanced Learners p. 446B
	21.2 How do we find equivalent fractions?	4N7 4N8 5N4	pp. 448-451	equivalent fractions, number line, simplest form	Alternative Teaching Strategy p. 448B English Language Learners p. 448B
	21.3 How do we compare and order fractions using 2-color counters and fraction bars?	4N9 5N5	pp. 452-455	greater than (>), less than (<), order	Alternative Teaching Strategy p. 452B

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	21.4 How do we solve problems by using the strategy <i>make a model</i> ?	4N7 5N5	pp. 456-457		Reading Strategy p. 456B Special Needs p. 456B Health Connection p. 456B
	Chapter 22: Add and Subtract Fractions and Mixed Numbers				
	22.1 How do we add fractions with the same denominator?	4N23 4A2 5N21	pp. 468-471	denominator, fraction, like fractions, numerator, simplest form, unlike fractions	Alternative Teaching Strategy p. 468B
	22.2 How do we subtract like fractions using fraction bars?	4N23 5N21	pp. 472-473		Alternative Teaching Strategy p. 472B Science Connection p. 472B
	22.4 How do we solve problems by using the skill <i>choose the operation</i> ?	4N15	pp. 478-479		Reading Strategy p. 478B
	Review		pp. 462-465 pp. 484-487 pp. 504-507		
	Getting Ready for the NY State Test		pp. 510-511		
	Unit Test				
	Unit 8: Measurement and Decimals				
	Chapter 24: Customary Measurement				
	24.1 How do we estimate and measure length and distance in customary units?	4M1	pp. 518-521	foot, inch, length, linear units, mile, yard	Alternative Teaching Strategy p. 518B ESOL/ESL p. 518B History Connection p. 518B
	24.2 How do we measure length to the nearest $\frac{1}{2}$, $\frac{1}{4}$ or $\frac{1}{8}$ inch?	4M2 5M1	pp. 522-525		Alternative Teaching Strategy p. 522B Early Finishers p. 522B
	24.3 How do we change linear units of measure by multiplying or dividing?	4M3 4A2 5M5	pp. 526-527		Alternative Teaching Strategy p. 526B Advanced Learners p. 526B

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DATE	LESSON OBJECTIVE	CONTENT STRAND	TEACHER EDITION	VOCABULARY	ADDITIONAL ACTIVITIES
	24.4 How do we find the capacity of containers using customary units?	3M6	pp. 528-529	capacity, cup, gallon, pint, quart, teaspoon, tablespoon	Alternative Teaching Strategy p. 528B Special Needs p. 528B Early Finishers p. 528B
	24.5 How do we measure the weight of objects in customary units?	3M3	pp. 530-531	weight, ounce, pound, ton	Special Needs p. 530B Advanced Learners p. 530B
	24.6 How do we compare various problem solving strategies?	5M5	pp. 532-533		Reading Strategy p. 532B
	Chapter 25: Metric Measurement				
	25.1 How do we measure length and distance in metric units?	4M1 4M2	pp. 540-543	centimeter, decimeter, kilometer, measure, meter, millimeter	Alternative Teaching Strategy p. 540B Early Finishers p. 540B
	25.2 How do we change linear units of measure by multiplying and dividing?	4M3 5M5	pp. 544-545		Alternative Teaching Strategy p. 544B Special Needs p. 544B Physical Education/Health Connection p. 544B
	25.3 How do we find the capacity of containers using the metric units milliliter and liter?	4M6	pp. 546-547	capacity, liter, milliliter	Alternative Teaching Strategy p. 546B
	25.4 How do we measure the mass of objects in metric units?	4M4	pp. 548-549	gram, kilogram, mass	Alternative Teaching Strategy p. 548B Vocabulary Strategy p. 548B Science Connection p. 548B
	25.5 How do we solve problems using the strategy <i>draw a diagram</i> ?	5M5	pp. 550-551		Alternative Teaching Strategy p. 550B Reading Strategy p. 550B
	Chapter 26: Understand Decimals				
	26.1 How do we learn to read and write fraction and decimal parts?	4N10 4N24	pp. 560-563	decimal, decimal point, fraction, hundredth, tenth	Alternative Teaching Strategy p. 560B Early Finishers p. 560B
	26.2 How do we explore decimals to the thousandths place? (Only to hundredths)	4N10 4N24	pp. 564-565	thousandths	Alternative Teaching Strategy p. 564B Early Finishers p. 564B

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	26.3 How do we read and write equivalent decimals?	4N12 4N24	pp. 566-567	equivalent decimals	Alternative Teaching Strategy p. 566B Early Finishers p. 566B
	26.5 How do we compare and order decimals?	4N12	pp. 572-575		Alternative Teaching Strategy p. 572B Writing in Mathematics p. 572B Science Connection p. 572B
	26.6 How do we use the problem solving strategy <i>use logical reasoning</i> ?		pp. 576-577		Alternative Teaching Strategy p. 576B Reading Strategy p. 576B Advanced Learners p. 576B
	Chapter 27: Add and Subtract Decimals				
	27.2 How do we estimate decimal sums and differences? (Money Amounts)	4A2 5N26	pp. 586-587	decimal point	Alternative Teaching Strategy p. 586B
	27.3 How do we write sums of decimals?	4N25 4N27 5N23 5N27	pp. 588-589		Alternative Teaching Strategy p. 588B Early Finishers p. 588B
	27.4 How do we write differences of decimals?	4N25 4N27 5N23 5N27	pp. 590-591	regrouping	Alternative Teaching Strategy p. 590B
	27.5 How do we write sums and differences of decimals and money?	4N11 4N25 4N27 5N23 5N27	pp. 592-595	equivalent decimals	Alternative Teaching Strategy p. 592B
	27.6 How do we solve problems using the skill <i>evaluate the reasonableness of answers</i> ?	4N27	pp. 596-597		Reading Strategy p. 596B Career Connection p. 596B
	Review				
	Getting Ready for the NY State Test				
			pp. 534-537 pp. 554-557 pp. 578-581 pp. 599-601		
	Unit Test				
			pp. 604-605		
	Unit 9: Perimeter, Area and Volume				
	Chapter 28: Perimeter of Plane Figures				

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	28.1 How do we measure the perimeter of polygons using nonstandard and standard units?	4G3	pp. 612-613	perimeter, polygon	Art Connection p. 612B Early Finishers p. 612B
	28.2 How do we use formulas to find the perimeter of polygons? (Add sides only-no formula needed)	4G3	pp. 614-617	formula, variable	Alternative Teaching Strategy p. 614B Special Needs p. 614B
	28.4 How do we use the problem solving skill <i>use a formula</i> to solve problems?	4G3 4A1	pp. 620-621		Alternative Teaching Strategy p. 620B Reading Connection p. 620 Early Finishers p. 620B
	Chapter 29: Area of Plane Figures				
	29.1 How do we estimate area of plane figures?				
	29.2 How do we measure and find the area of plane figures? (Count squares only-no formula needed)	4G4	pp. 628-629	area, square unit	Alternative Teaching Strategy p. 628B Advanced Learners p. 628B
	29.4 How do we use the problem solving strategy <i>find a pattern</i> to solve problems involving area and perimeter?	4G3 4G4	pp. 634-635	perimeter	Alternative Teaching Strategy p. 634B Physical Education Connection p. 634B
	Chapter 30: Solid Figures and Volume				
	30.1 How do we identify solid figures by their faces, edges and vertices?				
	30.2 How do we identify solid figures by their patterns?	4G5	pp. 644-647	dimension, 2-dimensional, 3-dimensional, edge, face, polygon, triangular prism, triangular pyramid, vertex	Writing in Mathematics p. 644B History Connection p. 644B
	30.4 How do we solve problems by using the skill <i>too much/too little information</i> ?	4G5,4ps17	pp. 648-649	net	Alternative Teaching Strategy p. 648B
	Review		pp. 654-655		Alternative Teaching Strategy p. 654B Reading Strategy p. 654B Special Needs p. 654B
	Getting Ready for the NY State Test				
			pp. 622-625 pp. 638-641 pp. 656-659		
	Unit Test				
			pp. 662-663		

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	NEW YORK STATE TEST WEEK				
	MAY-JUNE TOPICS				
	17.2 How do you measure, classify and draw angles?	4G8	pp. 366-369	acute angle, angle, degree, obtuse angle, protractor, right angle, straight angle, vertex	Advanced Learners p. 366B
	17.3 How do you identify intersecting, parallel and perpendicular lines?	4G6	pp. 370-371	intersecting lines, parallel lines, perpendicular lines	Special Needs p. 370B
	23.1 How do we record outcomes of experiments using tables?	4S2	pp. 490-491	events, outcomes	Alternative Teaching Strategy p. 490B Advanced Learners p. 490B