Pacing Guide 2010-2011 Mathematics Grade <u>5th Grade</u>

Grading Period: <u>2010-2011</u>

Approximate Time for Teaching	Standard	Core Instructional Materials	Strategic Supplementary Materials	Asses	essment	
Standards			Waterials	Mat'ls	District	
Standards Week 1 8/9 - 8/13	Preparation for Grade 5 NS 1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers. NS 1.2 Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number. AF 1.5 Solve problems involving linear functions with integer values; write the equation; and graph the resulting	Start Smart Lesson 1-6 TE pp. 2-13		Mat'ls	District	
	ordered pairs of integers on a grid. MG 1.4 Differentiate between, and use appropriate units of measures for, two- and three-dimensional objects (i.e., find the perimeter, area, volume). MG 2.1 Measure, identify, and draw angles, perpendicular and parallel lines, rectangles, and triangles by using appropriate tools (e.g., straightedge, ruler, compass, protractor, drawing software). SDAP 1.2 Organize and display single- variable data in appropriate graphs and representations (e.g., histogram, circle					

	graphs) and explain which types of graphs are appropriate for various data sets.		
	NS 1.3 Understand and compute positive integer powers of nonnegative integers; compute examples as repeated multiplication. NS 1.4 Determine the prime factors of all numbers through 50 and write the numbers as the product of their prime factors by using exponents to show multiples of a factor (e.g., $24 = 2 \times 2 \times 2 \times 3 = 2^3 \times 3$). MR 2.4 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work.	Chapter 1 Lessons 1-1 to 1-2 TE PP. 17-25	
Week 2 8/16 – 8/20	 NS 1.3 Understand and compute positive integer powers of nonnegative integers; compute examples as repeated multiplication. AF 1.1 Use information taken from a graph or equation to answer questions about a problem situation. AF 1.2 Use a letter to represent an unknown number; write and evaluate simple algebraic expressions in one variable by substitution. AF 1.5 Solve problems involving linear functions with integer values; write the equation; and graph the resulting ordered pairs of integers on a grid. MR 1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, 	Chapter 1 Lessons 1-3 to 1-8 TE pp. 27-49	

	sequencing and prioritizing information,		
	and observing patterns.		
	MR 1.2 Determine when and how to		
	break a problem into simpler parts.		
	MR 2.6 Make precise calculations and		
	check the validity of the results from		
	the context of the problem.		
Week 3	NS 1.3 Understand and compute	Chapter 1 Lessons 1-9 to 1-10	
Week 5	positive integer powers of nonnegative	TE pp. 52-61	
8/230-08/27	integers; compute examples as repeated	12 pp. 02 01	
0,230 00,21			
	multiplication.		
	AF 1.2 Use a letter to represent an unknown number; write and evaluate		
	simple algebraic expressions in one variable by substitution.		
	AF 1.3 Know and use the distributive		
	property in equations and expressions		
	with variables.		
	MG 1.4 Differentiate between, and use		
	appropriate units of measures for, two-		
	and three-dimensional objects (i.e., find		
	the perimeter, area, volume). MR 2.3 Use a variety of methods, such		
	as words, numbers, symbols, charts,		
	graphs, tables, diagrams, and models, to		
	explain mathematical reasoning. MR 2.4 Express the solution clearly		
	and logically by using the appropriate		
	mathematical notation and terms and		
	clear language; support solutions with evidence in both verbal and symbolic		
	work.		
	MR 3.2 Note the method of deriving the		
	solution and demonstrate a conceptual		
	understanding of the derivation by		
	solving similar problems.		
	MR 3.3 Develop generalizations of the		
	results obtained and apply them in other		
	circumstances.		

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		Chapter 2 Review		
		ТЕ рр. 62-66		
		Chapter 1 Assessments		
Week 4		Contout Standards Assessment		
8/30 - 9/3		Content Standards Assessment Ch. 1		
0,50 7,5		TE pp. 68-69		
	MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts,	Chapter 2 Lessons 2-1 to 2-5		
	graphs, tables, diagrams, and models, to	ТЕ рр. 73-93		
	explain mathematical reasoning.			
	MR 2.4 Express the solution clearly and logically by using the appropriate			
	mathematical notation and terms and			
	clear language; support solutions with			
	evidence in both verbal and symbolic			
	work. SDAP 1.2 Organize and display single-			
	variable data in appropriate graphs and			
	representations (e.g., histogram, circle			
	graphs) and explain which types of			
	graphs are appropriate for various data			
	sets. SDAP 1.4 Identify ordered pairs of data			
	from a graph and interpret the meaning of			
	the data in terms of the situation depicted by			
	the graph.			
Week 5				
	NS 1.5 Identify and represent on a			
9/7 – 9/10	number line decimals, fractions, mixed	Chapter 2 Lessons 2.6-2.10		
	numbers, and positive and negative integers.	TE pp. 95-117		
	MR 1.1 Analyze problems by			
	identifying relationships, distinguishing			
	relevant from irrelevant information,			
	sequencing and prioritizing information,			
	and observing patterns.			

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	MR 2.3 Use a variety of methods, such			
	as words, numbers, symbols, charts,			
	graphs, tables, diagrams, and models, to			
	explain mathematical reasoning.			
	MR 2.4 Express the solution clearly			
	and logically by using the appropriate			
	mathematical notation and terms and			
	clear language; support solutions with			
	evidence in both verbal and symbolic			
	work.			
	MR 3.2 Note the method of deriving the			
	solution and demonstrate a conceptual			
	understanding of the derivation by			
	solving similar problems.			
	MR 3.3 Develop generalizations of the			
	results obtained and apply them in other			
	circumstances.			
	SDAP 1.1 Know the concepts of mean,			
	median, and mode; compute and compare simple examples to show that they may			
	differ.			
	SDAP 1.2 Organize and display single-			
	variable data in appropriate graphs and			
	representations (e.g., histogram, circle			
	graphs) and explain which types of			
	graphs are appropriate for various data			
	sets.			
	SDAP 1.4 Identify ordered pairs of data			
	from a graph and interpret the meaning of			
	the data in terms of the situation depicted by			
	the graph.			
Week 6		Chapter 2 Review		
9/13 - 9/17		TE pp. 120-124		
7/15 7/11		12 pp. 120 124		
		Chapter 2 Assessment		
		Chapter 2 Assessment		
		Content Standards Assessment		
		Content Standards Assessment Ch 2		
		ТЕ рр. 126-127		

NS 1.5 Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers. MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	Chapter 3 Lesson 3.1 TE pp. 131-134	
 Week 7 Week 7 NS 1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers. NS 1.5 Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers. MG 1.4 Differentiate between, and use appropriate units of measures for, two-and three-dimensional objects (i.e., find the perimeter, area, volume). MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning. MR 2.4 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work. MR 2.5 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy. MR 2.6 Make precise calculations and check the validity of the results from the context of the problem. 	Chapter 3 Lessons 3.2-3.6 TE pp. 135-155	

Week 8				
9/27 – 10/1	NS 1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers. NS 2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results. MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning. MR 2.5 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy. MR 3.3 Develop generalizations of the results obtained and apply them in other circumstances.	Chapter 3 lesson 3-7 TE pp. 156-161		
		Chapter 3 Review TE pp. 164-168		
		Chapter 3 Assessment		
		Content Standards Assessment TE pp. 170-171		
Week 9		Catch-up and Review		
10/4 – 10/7 End of 1 st Q		District Assessment 1		

Week 10 10/12 – 10/15	NS 1.4 Determine the prime factors of all numbers through 50 and write the numbers as the product of their prime factors by using exponents to show 	Chapter 4 Lessons 4-1 to 4-5 TE pp. 175-197		
Week 11 10/18 – 10/2	NS 1.2 Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number. NS 1.5 Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers. SDAP 1.2 Organize and display single-	Chapter 4 Lessons 4-6 to 4-10 TE pp. 198-217		

	variable data in appropriate graphs and representations (e.g., histogram, circle graphs) and explain which types of graphs are appropriate for various data sets. SDAP 1.3 Use fractions and		
	SDAP 1.5 Use fractions and percentages to compare data sets of different sizes. MR 2.6 Make precise calculations and check the validity of the results from the context of the problem		
Week 12		Chap 4 Review TE pp. 220- 224	
10/25 - 10/29		Chapter 10 Assessment	
		Content Standards Assessment TE pp. 226-227	
	NS 1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers.	Chapter 5 Lesson 5-1 TE pp. 231-236	
Week 13	NS 1.1 Estimate, round, and manipulate very large (e.g., millions) and very	Chapter 5 Lessons 5-2 to 5.6 TE pp. 237-256	
11/1 – 11/5	small (e.g., thousandths) numbers. NS 2.3 Solve simple problems, including ones arising in concrete situations, involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less), and express answers in the simplest form.	12 pp. 201 200	
	MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts,		

Week 14 11/8 – 11/12	graphs, tables, diagrams, and models, to explain mathematical reasoning. MR 2.5 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy. NS 2.3 Solve simple problems, including ones arising in concrete situations, involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less), and express answers in the simplest form. MR 2.1 Use estimation to verify the reasonableness of calculated results.	Chapter 5 Lessons 5-7 to 5-8 TE pp. 260-269		
		Chapter 5 review TE pp. 272-276		
		Chapter 5 Assessment		
		Content Standards		
		Assessment TE pp. 278-279		
	NS 2.1 Add, subtract, multiply, and	Chapter 6 Lessons 6-1 to 6-4		
Week 15	divide with decimals; add with negative	TE pp.283-299		
11/15 - 11/19	integers; subtract positive integers from negative integers; and verify the reasonableness of the results.			
	NS 2.2 Demonstrate proficiency with			
	division, including division with positive decimals and long division			
	with multidigit divisors.			
	MR 2.1 Use estimation to verify the reasonableness of calculated results.			

Week 16 11/22 – 12/3	MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning. MR 2.5 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy. NS 2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results. NS 2.2 Demonstrate proficiency with division, including division with positive decimals and long division with multidigit divisors. NS 2.4 Understand the concept of multiplication and division of fractions. NS 2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems. MR 1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns. MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning. MR 2.5 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy.	Chapter 6 Lessons 6-5 to 6-9 TE pp. 301-324			
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Week 17 12/6 – 12/10	NS 2.4 Understand the concept of multiplication and division of fractions. NS 2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems. MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	Chapter 6 Lessons 6-10 to 6-11 TE pp. 325-337 Chapter 6 review TE pp. 338-342		
		Chapter 6 Assessment		
		Content Standards Assessment TE pp. 344-345		
Week 18				
12/13 – 12/17 End of 2 nd Q		Catch-up and Review District Assessment 2		
Week 19 1/6 – 1/14	NS 1.5 Identify and represent on a number line decimals, fractions, mixed numbers, and positive and negative integers. NS 2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from	Chapter 7 Lessons 7-1 to 7-6 TE pp. 349-375		
	negative integers; and verify the reasonableness of the results. MR 1.1 Analyze problems by identifying relationships, distinguishing			

	relevant from irrelevant information, sequencing and prioritizing information, and observing patterns. MR 2.3 Use a variety of methods, such		
	as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.		
Week 20	NS 2.1 Add, subtract, multiply, and divide with decimals: add with pegative	Chapter 7 Lessons 7 7 to 7 11	
1/18 – 1/21	divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results. MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning. MR 2.4 Express the solution clearly and logically by using the appropriate mathematical notation and terms and clear language; support solutions with evidence in both verbal and symbolic work. AF 1.4 Identify and graph ordered pairs in the four quadrants of the coordinate plane. AF 1.5 Solve problems involving linear functions with integer values; write the equation; and graph the resulting ordered pairs of integers on a grid.	Chapter 7 Lessons 7-7 to 7-11 TE pp. 376-401	
		Chapter 7 review TE pp. 402-406 Chapter 7 Assessment	
Week 21		Chapter 7 Assessment	
1/24 - 1/28		Content Standards Assessment Chapter 7 TE pp. 408-409	
		Chapter 8 Lesson 8-1	

Week 22NS 2.1 Add, subtract, multiply, and divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results. SDAP 1.1 Know the concepts of mean, median, and mode; compute and compare simple examples to show that they may differ. AF 1.1 Use information taken from a graph or equation to answer questions about a problem situation. AF 1.2 Use a letter to represent an unknown number; write and evaluate simple algebraic expressions in one variable by substitution. MR 1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, acquencing and prioritizing information, and observing patterns. MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.Chapter 8 Lessons 8-2 to 8-6 TE pp. 420-441		TE pp. 413-418		
as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	divide with decimals; add with negative integers; subtract positive integers from negative integers; and verify the reasonableness of the results. SDAP 1.1 Know the concepts of mean, median, and mode; compute and compare simple examples to show that they may differ. AF 1.1 Use information taken from a graph or equation to answer questions about a problem situation. AF 1.2 Use a letter to represent an unknown number; write and evaluate simple algebraic expressions in one variable by substitution. MR 1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information,			
Week 23unknown number; write and evaluate simple algebraic expressions in one variable by substitution. AF 1.5 Solve problems involving linear functions with integer values; write the equation; and graph the resulting ordered pairs of integers on a grid.Chapter 8 Lessons 8-7 to 8-8 TE pp. 442-447Chapter 8 Lessons 8-7 to 8-8 TE pp. 442-447TE pp. 442-447	MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning. ————————————————————————————————————	Chapter 8 review TE pp. 456-458		

Week 24 2/14 – 2/17	NS 1.2 Interpret percents as a part of a hundred; find decimal and percent equivalents for common fractions and explain why they represent the same value; compute a given percent of a whole number. NS 2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems. SDAP 1.2 Organize and display single- variable data in appropriate graphs and representations (e.g., histogram, circle graphs) and explain which types of graphs are appropriate for various data sets. SDAP 1.3 Use fractions and percentages to compare data sets of different sizes. MR 2.2 Apply strategies and results from simpler problems to more complex problems. MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.	Content Standards Assessment Chapter 8 TE pp. 460-461 Chapter 9 Lessons 9-1 to 9-5 TE pp. 465-488		
	NS 1.2 Interpret percents as a part of a hundred; find decimal and percent	Chapter 9 Lessons 9-6 to 9-10		
Week 25	equivalents for common fractions and explain why they represent the same	TE pp.490-516		
2/22 – 2/25	value; compute a given percent of a whole number. NS 2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems.			

	MG 2.2 Know that the sum of the angles of any triangle is 180° and the sum of the angles of any quadrilateral is 360° and			
	use this information to solve problems.			
	MG 2.3 Visualize and draw two-dimensional views of three- dimensional objects made from rectangular solids.			
	MR 1.1 Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.			
	MR 3.3 Develop generalizations of the results obtained and apply them in other circumstances.	Chapter 10 review TE pp. 571-576		
Week 28		Chapter 10 Assessment		
3/21 – 3/25 End of 3 rd Q		Content Standards Assessment Chapter 10 TE pp. 578-579		
		Catch-up and Review District Assessment 3		

Week 29-30 3/28 – 4/1	MG 1.1 Derive and use the formula for the area of a triangle and of a parallelogram by comparing it with the formula for the area of a rectangle (i.e., two of the same triangles make a parallelogram with twice the area; a parallelogram is compared with a rectangle of the same area by cutting and pasting a right triangle on the parallelogram).	Chapter 11 Lessons 11-1 to 11-7 TE pp. 583-622		
	MG 1.2 Construct a cube and rectangular box from two- dimensional patterns and use these patterns to compute the surface area for these objects.			
	MG 1.3 Understand the concept of volume and use the appropriate units in common measuring systems (i.e., cubic centimeter [cm ³], cubic meter [m ³], cubic inch [in ³], cubic yard [yd ³]) to compute the volume of rectangular solids.			
	MG 1.4 Differentiate between, and use appropriate units of measures for, two-and three- dimensional objects (i.e., find the perimeter, area, volume).			
	MR 2.3 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, and models, to explain mathematical reasoning.			

MR 3.2 Note the method of derivation and demonstrate a conceptual understanding of the derivation by solving similar problems. MR 3.3 Develop generalizations of the results obtained and apply them in other circumstances. Week 31-32			
	deriving the solution and demonstrate a conceptual understanding of the derivation by solving similar problems. MR 3.3 Develop generalizations of the results obtained and apply		

I	1-3	NS <u>1.1.1.2.1.3.1.4,1.5</u> 2.1.2.3 AF <u>1.1.1.2.1.3.1.5</u> MG <u>1.4.2.1</u> SDAD 3.1.1.2.1.1.5	*Student textbook *Reteach/Homework Workbooks	*Chapter Tests
		MG <u>1.4,2.1</u>	Warkhaake	
		UNAD 2 1 1 2 2 4 5 7	w orkoooks	
		SDAP <u>1.1.1.2.1.4.3.5</u>	*EL Guide	*Mid-
		MR 1.1.1.2.2.3.2.4.2.5.2.6.3.2.	*Foldables	Chapter
	i	3.3	*Strategic Intervention	Quiz
			Book	
			*Chapter Resource Books	
			*Standards Practice and	
			assessment book	
			*Diagnostic	
Quarter	Benchmark	Assessment	10/4-10/7	
<u>1</u> 11	4-6	NS1.3,1.2,1.3,1.4,1.5,2.1, <u>2.2</u> ,2.3	*Student textbook	Chapter
		2425	*Reteach/Homework	Tests
		AF1.1,1.2,1.3,1.5	Workbooks	10303
		MG1.4,2.1	*EL Guide	*Mid-
		SDAP1.1,1.2, <u>1.3</u> ,1.4,1.5	*Foldables	Chapter
		MR1.1,1.2.1,2,2.3,2.4,2.5,2.6,	*Strategic Intervention	Quiz
	1	3.1,3.2,3.3	Book	Zuiz.
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		:	*Standards Practice and	
			assessment book	
	: 		*Diagnostic	
Quarter	Benchmark	Assessment	12/13-12/17	
2	7.10			~
1[]	7-10	NS1.1,1.2,1.3,1.4,1.5, <u>3.1.2.2</u> ,2.3	*Student textbook	Chapter
		2.4,2.5	*Reteach/Homework	Tests
		AF1.1,1.2,1.3, <u>1.4</u> ,1.5	Workbooks	4
	1	MG <u>1.3</u> ,1.4,2.1,	*EL Guide	*Mid-
÷		SDAP1.1,1.2,1.3,1.4,1.5	*Foldables	Chapter
		MR1.1,1.2.1,2,2.2,2.3,2.4,2.5, 2.6,3.1,3.2,3.3	*Strategic Intervention	Quiz
		4.0,3.1,3.2,3.3	: Book *Churten Bassung Daaka	:
			*Chapter Resource Books *Standards Practice and	i
			assessment book	
			*Diagnostic	
Quarter	Benchmark	Assessment	3/7-3/11	
3	11	NO11110101010100000		
IV	11	NS1.1,1.2,1.3,1.4,1.5,2.1,2.2,2.3	*Student textbook *Reteach/Homework	Chapter
		2.4,2.5	Workbooks	Tests
		AF1.1,1.2,1.3,1.4,1.5	*EL Guide	*Mid-
			_	Quiz
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			assessment book	
			*Diagnostic	
		MG <u>1.1.1.2,1.3,1.4,1.5</u> MG <u>1.1.1.2,1.3,1.4,2.1,1.2,2.3</u> SDAP1.1,1.2,1.3,1.4,1.5 MR1.1,1.2.1,2,2.2,2,3.2,4,2.5, 2.6,3.1,3.2,3.3	*Foldables *Strategic Intervention Book *Chapter Resource Books	-Min Chap Qui

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Grade 5 Mathematics Assessment Appendix