

4th Grade Math Scope and Sequence Overview 2009-2010

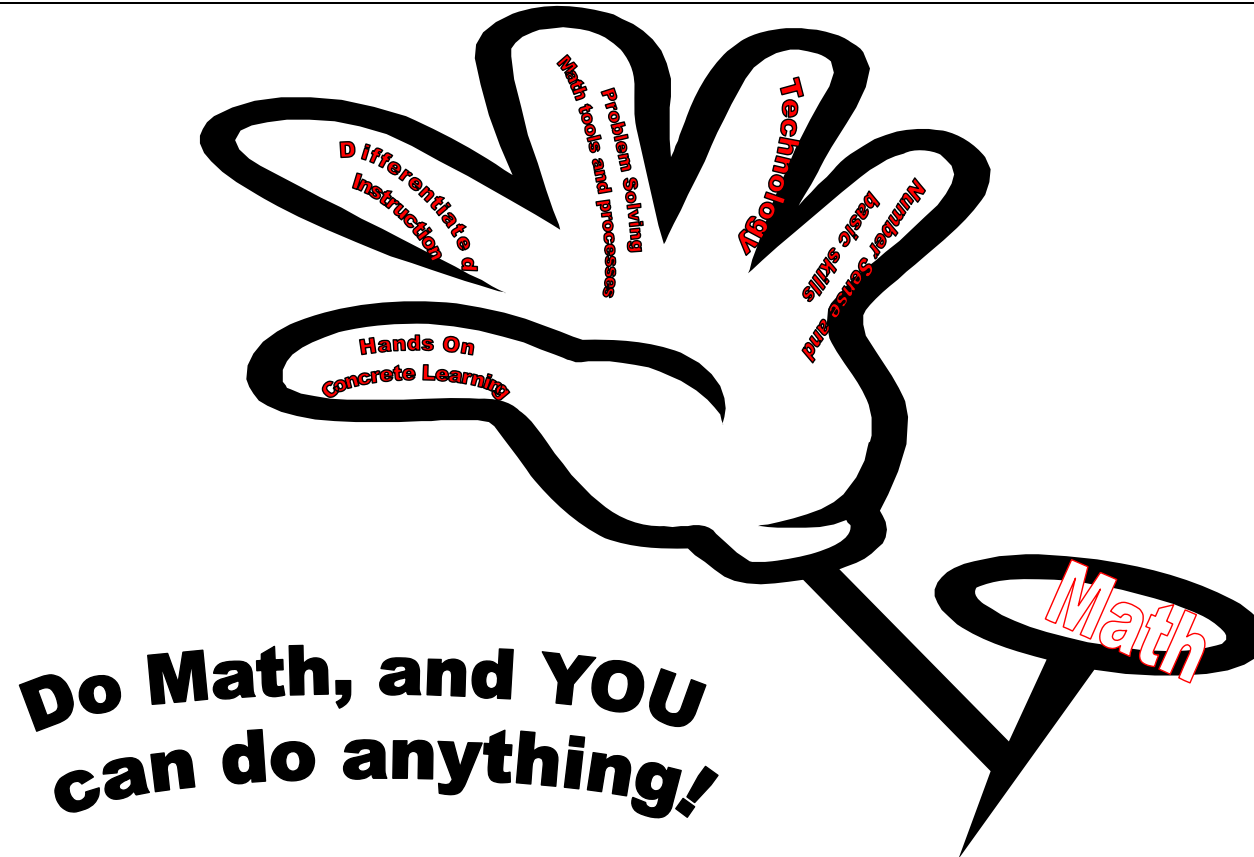
	1st 6wks Aug 24- Oct 2	2nd 6wks Oct 5 - Nov 6	3rd 6weeks Nov 9- Dec 18	4th 6 weeks Jan 5-Feb19	5th 6 weeks Feb 22 - April 16	6th 6 weeks April 19 - June 4
Week One	Measuring Week TIME/Temperature and Conversions (4.12A, B) Rituals and Routines: -Review Routines -Problem Solving -Math Notebook/Journal -Facts and Data Aug. 24- 28 ▲	Measuring Week Linear Measurement - Perimeter/Area and Conversions (4.11A, B) Oct 5-9 ▲	Multiplication/Division Facts (4.4 B, C, D, E) (4.6A) Nov. 9-13	Measuring Week Weight/Mass and Conversions (4.11A, B, E) Jan 5-8 ▲	Fractions/Decimals (4.1 B) (4.2 D) (4.3 B) (4.10) Feb 22-26 ▲	Review for TAKS April 19-23
Week Two	Place Value-Estimation (4.1A,B) (4.5A) Aug. 31- Sept 4 ▲ Logical Reasoning	Algebra, Patterns, Expressions, Equations (4.6A,B) (4.7A) Oct 12-16 ▲ Working Backwards	Multiplication/Division Facts (4.4 A, B, C, D, E) (4.6A) Nov.16-20 Measurement Madness I Draw a Picture	Data (4.7) (4.13 A,B) Jan 11-15 Make a List	Measuring Week Capacity/Volume and Conversions (4.11 A, B, C, D) March 1-5 ▲ Writing TAKS March 3	April 26-30 Math TAKS 27 Math Projects (4.14AD) (4.15AB)(4.16B)
Week Three	Place Value-Estimation (4.1A,B) (4.5A) Sept. 7-11 ▲	Algebra, Patterns, Expressions, Equations (4.6A,B) (4.7A) Oct. 19-23 ▲	Multiplication/Division Facts- Estimation (4.4 A, B, C, D, E) (4.5B) Nov. 30-Dec4	Probability and Combinations (4.13 A, B) (4.16A) Jan 18-22	Measuring Week Review March 1-5 ▲	Problem Solver May 3-7 Guess and Check (4.14BC)
Week Four	Place Value-Estimation (4.1A,B) (4.5A) Sept. 14-18 ▲ Make a Table	Multiplication/Division Facts (4.4 A, B, C) (4.6 A) Oct.26-30 Guess and Check	Multiplication/Division Facts- Estimation (4.4 A, B, C, D, E) (4.5B) Dec. 7-11 Make It Simpler	Geometry (4.8 A,B,C) Jan 25-29 Math Bowl Act it Out	Review MOCK TEST March 29-April 2	Problem Solver May 10-14 Look for Patterns (4.14BC)
Week Five	Addition/Subtraction- Estimation (4.3A) (4.5B) Sept. 21-25	Multiplication/Division Facts (4.4 A, B, C) (4.6 A) Nov. 2- 6	Data (4.13A, B) Review and Benchmark Dec. 14-18	Geometry (4.9 A, B, C) Feb. 1-5	Review for TAKS March 29-April 2	Preparing for Measuring Madness Open-ended Test (4.14BC)(4.16B) May 17-21
Week Six	Review and Benchmark Sept. 28-Oct 2	/	/	Fractions (4.2A, B, C) Feb. 8-12 Looking for a Pattern	Review for TAKS April 5-9	Measurement Madness II Division and Multiplication (3.4A) May 24-28
Week seven	/	/	/	Fractions/Decimals (4.1 B) (4.2 D) (4.3 B) Feb. 15-19	Review for TAKS April 12-16	Presentation of Math Projects (4.14AD) (4.15AB) May 31-June4
▲	Spiral throughout the year- Problem Solving, Data and Graphing, Measurement/ multiplication and division facts					
	Instructional Levels: I - Introduced D- Developed M- Mastered T- Tested and R - Retaught					



Math Principles for Clint ISD 2009-2010



The math curriculum at CLINT ISD operates under these **five principles**.



Math lessons need to reflect these five components.



Underlying Processes and Mathematical Tools

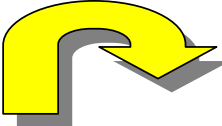


The following TEKS are to be taught from day one in the classroom and need to be to increase the mathematical thinking of the students.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
(K.13) Underlying processes and mathematical tools. The student applies Kindergarten mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	(1.11) Underlying processes and mathematical tools. The student applies Grade 1 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	(2.12) Underlying processes and mathematical tools. The student applies Grade 2 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	(3.14) Underlying processes and mathematical tools. The student applies Grade 3 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	(4.14) Underlying processes and mathematical tools. The student applies Grade 4 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:	(5.14) Underlying processes and mathematical tools. The student applies Grade 5 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:
(A) Identify mathematics in everyday situation			(A) Identify mathematics in everyday situation (MT)		
(B) solve problems with guidance , that incorporates the process of understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness			(B) solve problems with guidance , that incorporates the process of understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness (MT)		
(C) select or develop an appropriate problem-solving strategy including drawing a picture, looking for a pattern, systematic guessing and checking, or acting it out in	(C) select or develop an appropriate problem-solving plan or strategy including drawing a picture, looking for a pattern, systematic guessing and checking, or acting it out in order to solve a problem		(C) select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem (MT)		
(D) use tools such as real objects, manipulatives, and technology to solve problems			(D) use tools such as real objects, manipulatives, and technology to solve problems (RM)		
(K.14) Underlying processes and mathematical tools. The student communicates about Kindergarten mathematics using informal language . The student is expected to:	(1.12) Underlying processes and mathematical tools. The student communicates about Grade 1 mathematics using informal language . The student is expected to:	(2.13) Underlying processes and mathematical tools. The student communicates about Grade 2 mathematics using informal language . The student is expected to:	(3.15) Underlying processes and mathematical tools. The student communicates about Grade 3 mathematics using informal language . The student is expected to:	(4.15) Underlying processes and mathematical tools. The student communicates about Grade 4 mathematics using informal language . The student is expected to:	(5.15) Underlying processes and mathematical tools. The student communicates about Grade 5 mathematics using informal language . The student is expected to:
(A) communicate mathematical ideas using objects, words, pictures, numbers, and technology	(A) explain and record observations using objects, words, pictures, numbers, and technology		(A) explain and record observations using objects, words, pictures, numbers, and technology (RM)		
(B) relate everyday language to mathematical language and symbols			(B) relate informal language to mathematical language and symbols (MT)		
(K.15) Underlying processes and mathematical tools. The student is expected to:	(1.13) Underlying processes and mathematical tools. The student is expected to:	(2.14) Underlying processes and mathematical tools. The student is expected to:	(3.16) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to:	(4.16) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to:	(5.16) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to:
			(A) make generalizations from patterns or sets of examples and nonexamples (MT)		
The student uses logical reasoning. The student is expected to justify his or her thinking using objects, words, pictures, numbers and technology.			(B) justify why an answer is reasonable and explain the solution process (RM)		
Assumptions					
<ul style="list-style-type: none"> ▶ Mathematic processes and tools will be used everyday in the classroom by teachers and students. ▶ Open-ended assessments will be given to students three times a year and student growth charts will be kept to be review throughout the year. ▶ Review boards are expected to be used weekly by teachers and students. ▶ Mathematic lessons are planned and implemented under the district five principles. (See Principle section) ▶ 15-30-45 Model with 90 minute block 					

4th Grade Math Scope and Sequence Overview 2009-2010

First Six Weeks - Week One - August 24-28 Measuring Week Time/Temp. & Conversions

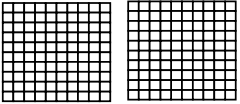
Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.12) Measurement. The student applies measurement concepts. The student measures time and temperature (in degrees Fahrenheit and Celsius). The student is expected to:</p> <p>A. use a thermometer to measure temperature and changes in temperature; and</p> <p>B. Use tools such a clock with gears or a stopwatch to solve problems involving elapsed time.</p> <div data-bbox="52 1040 369 1323" style="border: 1px solid black; background-color: #ffffcc; padding: 5px; margin-top: 20px;">  <p>Students usually have a hard time with elapsed time. We suggest making a lineal model of the clock.</p> </div>	<p>4.12A MT</p> <p>4.12B MT</p>	<p>Use a <u>thermometer to measure</u>:</p> <ol style="list-style-type: none"> temperature changes in temperature. <p>Use <u>tools to solve problems involving elapsed time</u></p> <p>Tools such as:</p> <ol style="list-style-type: none"> clock with gears stopwatch 	<p>Temperature</p> <p>degrees Fahrenheit Celsius thermometer elapsed time Concept of A.M P.M before after quarter till quarter after</p>	<p>Grade 3 (3.12A) use a thermometer to measure temperature</p> <p>Grade 5 (5.11A) solve problems involving changes in temperature</p> <p>Grade 3 (3.12B) tell and write time shown on analog and digital clocks</p> <p>Grade 5 (5.11B) solve problems involving elapsed time.</p>	<p>The thermometer below shows the high temperature for one day in March. The low temperature for one day in March. The low temperature for one day was 17° F lower.</p> <p>What was the low temperature? (A thermometer is shown with this question)</p> <p>Look at the clocks. Mark baby-sits from 2:45 PM to 5:15 PM each day. How long does he baby-sit each day?</p>	<p>Text HSP Book</p> <ol style="list-style-type: none"> Page 474 A (Measure time) Page 476 A (Elapsed Time) Page 480A to 483 (Sequencing elapsed time and Calendar) Page 484A-485 (Temp and F) Page 486-487 (Temp Celcius) <p>Think Math</p> <p>E-Lab (Time and Money) (4.12A) Page 702 (4.12B) Page 692</p> <p>Motivation Math</p> <p>Page 155 - 160</p> <p>Count on it</p> <p>p 26-31 p 50-51 p 93 (T.E)</p> <p>Internet Resource</p> <p>www.tmsds.org</p>

Begin memorizing multiplication and division facts . See HSP Chapter 4 and 5 for reinforcement

Every teacher in Clint ISD needs to set up a method to review math concepts throughtout the year.
Example: Review Board, Calendar math with skills incorporated in it, Mountain Math,
This needs to be set up NO later than the first week of school.

4th Grade Math Scope and Sequence Overview 2009-2010

First Six Weeks - Week Two, Three and Four - August 31-September 18 Place Value- Estimation

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.1) Number, operation, and quantitative reasoning. The student uses place value to represent whole numbers and decimals. The student is expected to:</p> <p>(A) use place value to read, write, compare, and order whole numbers through 999,999,999; and</p> <p>(B) use place value to read, write, compare, and order decimals involving tenths and hundredths, including money, using concrete objects and pictorial models.</p> <p>(4.5) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to:</p> <p>(A) round whole numbers to the nearest ten, hundred, or thousand to approximate reasonable results in problem situations; and</p> <div data-bbox="71 1179 327 1297" style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p>Make connection to students that fractions, decimals and division are the same</p> </div>	<p>4.1 (A) IDMT</p> <p>4.1(B) IDMT</p> <p>4.5(A) MT</p>	<p>(4.1A) Use place value to read, write, compare, and order whole numbers through 999,999,999</p> <p>(4.1B) Use place value to read, write, compare, and order decimals involving tenths and hundredths, using concrete objects and pictorial models including: money.</p> <p>(4.5A) Round whole numbers to approximate reasonable results in problem situations.</p> <p>Round to the nearest:</p> <ol style="list-style-type: none"> 1. ten 2. hundred 3. thousand 	<p>place Value</p> <p>whole number</p> <p>decimals</p> <p>decimal point</p> <p>compare</p> <p>tenths</p> <p>hundredths</p> <p>estimate</p> <p>round</p> <p>reasonable</p> <p>approximate</p> <p>greater than</p> <p>less than</p> <p>equal</p> <p>not equal</p> <p>standard form</p> <p>expanded form</p> <p>word form</p>	<p>Grade 3: (3.1A) use place value to read (in symbols and words), and describes the value of whole numbers through 999,999</p> <p>Grade 5: (5.1A) Use place value to read, write, compare and order numbers through 999,999,999,999.</p> <p>Grade 3: (3.5A) Round whole numbers to the nearest ten or hundred to approximate reasonable results in problem situations.</p> <p>Grade 5: (5.4) Use strategies including rounding and compatible numbers to estimate solutions to addition, subtraction, multiplic</p>	<p>Which of the following is another way to write the numeral 5,010,705?</p> <p>There are 24 hours in a day and 365 days in a year. Which is the best estimate of the number of hours in a year?</p> <p>What decimal does the model represent?</p> <div data-bbox="1276 618 1514 721" style="display: flex; justify-content: space-around;">  </div>	<p>HSP</p> <ol style="list-style-type: none"> 1. 1.1 page 4-7 (place value) 2. 1.2 page 8-9 (hands on millions) 3. 1.3 page 10-11 (place value millions) 4. 1.4 page 12-15 (compare whole numbers) 5. 1.5 page 16-19 (order whole numbers) 6. 2.2 page 34-37 (round whole numbers) <p>EDM</p> <p>Math Journal 1 page 31 (whole numbers)</p> <p>Math Journal 1 page 95-96 (Decimals)</p> <p>Think Math</p> <p>(4.1) Place Value page 594-601</p> <p>E-Lab: Place Value to 100,000 (4.1A) page 602</p> <p>Motivation Math</p> <p>Page 5-10 and page 77-82</p> <p>Count on it page 42-47</p> <p>Intenet Resources</p> <p>www.tmsds.org</p>

Notice that place value needs to be for **whole numbers and decimals**.

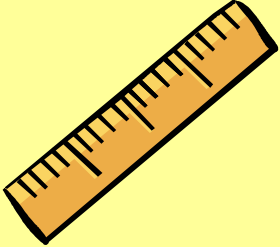
4th Grade Math Scope and Sequence Overview 2009-2010

First Six Weeks - Week Five - September 21-25 Addition/Subtraction-Estimation

Standards	Instr. Level	Concepts	Vocabulary	Prerequisites	Assessment	Resources/ Materials
<p>(4.3) Number, operation, and quantitative reasoning. The student adds and subtracts to solve meaningful problems involving whole numbers and decimals. The student is expected to:</p> <p>(A) Use addition and subtraction to solve problems involving whole numbers and;</p> <p>(4.5) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to:</p> <p>(A) round whole numbers to the nearest ten, hundred, or thousand to approximate reasonable results in problem situations; and</p>	<p>4.3(A) MT</p> <p>4.5(A) MT</p>	<p>4.3 A</p> <p><u>Use addition and subtraction to solve problems involving whole numbers.</u></p> <p>(4.5A)</p> <p><u>Round whole numbers to approximate reasonable results</u> in problem situations.</p> <p>Round to the nearest:</p> <ol style="list-style-type: none"> 1. ten 2. hundred 3. thousand 	<p>sum</p> <p>difference</p> <p>addend</p>	<p>4.3 A</p> <p>Grade 3:</p> <p>(3.3A) Use addition and subtraction using pictures, words, and numbers.</p> <p>Grade 5:</p> <p>(5.3A) Using addition and subtraction to solve problems involving whole numbers and decimals.</p> <p>4.5 A</p> <p>Grade 3:</p> <p>(3.5A) Round whole numbers to the nearest ten or hundred to approximate reasonable results in problem situations.</p> <p>Grade 5:</p> <p>(5.4) Use strategies including rounding and compatible numbers to estimate solutions to addition, subtraction, multiplic</p>	<p>There were 1,455,268 people living in weston in 1990. In the year 2000 there were 1,426,599 people.</p> <p>How many more people were living in Weson in 1990 than in 2000?</p>	<p>HSP</p> <ol style="list-style-type: none"> 1. 2.3 page 38-39 (add/sub patterns) 2. 2.4 page 40-43 (estimate sums/diff) 3. 2.5 page 44-47 (mental math) 4. 2.7 page 50-53 (add/sub to 4digits) 5. 2.8 page 54-55 (subtract across 0's) 6. 2.9 page 56-59 (choose method) <p>Chapter 16</p> <p>reference to the place value fo decimals</p> <p>This will be reviewed again during the end of the 4th six weeks</p> <p>Think Math</p> <p>page 10-15</p> <p>E-lab (subtracting- across 0)</p> <p>Motivation Math</p> <p>(4.3A) Page 35-40</p> <p>(4.5A) Page 77-82</p> <p>Count on it</p> <p>Page 10-15</p> <p>Internert Resources</p> <p>www.tmsds.org</p>

4th Grade Math Scope and Sequence Overview 2009-2010

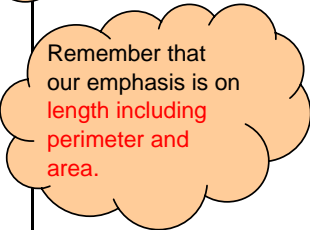
First Six Weeks - **Week Six** - September 21-October 2- **Review and Benchmark**

Standards		Concepts	Vocabulary	Prerequisites	Assessment	Resources/ Materials
<p>Students will be able to:</p> <ol style="list-style-type: none"> 1. Use thermometer to measure temperature 2. Use thermometer to measure changes in temperature 3. Use tool (stopwatch and clock with gears) to solve problems involving <u>elapsed time</u> 4. Use place value to read whole numbers through 999,999,999 5. Use place value to write whole numbers through 999,999,999 6. Use place value to compare whole numbers through 999,999,999 7. Use place value to order whole numbers through 999,999,999 8. Use place value to read decimals involving tenth and hundredths (including money) using concrete objects and pictorial models 9. Use place value to write decimals involving tenth and hundredths (including money) using concrete objects and pictorial models 10. Use place value to compare decimals involving tenth and hundredths (including money) using concrete objects and pictorial models 11. Use place value to order decimals involving tenth and hundredths (including money) using concrete objects and pictorial models 12. Round whole numbers to the <u>nearest ten</u> to approximate reasonable results in problem situations 13. Round whole numbers to the <u>nearest hundred</u> to approximate reasonable results in problem situations 14. Round whole numbers to the <u>nearest thousand</u> to approximate reasonable results in problem situations 15. Use <u>addition</u> to solve problems involving whole numbers 16. Use <u>subtraction</u> to solve problems involving whole numbers <p align="right"></p> <p align="center">Remember that these skills need to be reviewed and supported throughout the year with our Review Boards.</p>						

4th Grade Math Scope and Sequence Overview 2009-2010

Second Six Weeks - Week One - October 5-9 Measuring Week Linear Measurement-Perimeter/Area and Conversions

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.11) Measurement. The student applies measurement concepts. The student is expected to estimate and measure to solve problems involving length (including perimeter) and area. The student uses measurement tools to measure capacity/volume and weight/mass. The student is expected to:</p> <p>(A) Estimate and use measurement tools to determine length (including perimeter), area, capacity, and weight/mass using standard units SI (metric) and customary.</p> <p>(B) Perform simple conversions between different units of length, between different units of capacity, and between units of weight within the customary measurement system.</p>	<p>4.11A MT</p> <p>4.11B IDMT</p>	<p>4.11A Estimate and use measurement tools to determine</p> <ol style="list-style-type: none"> length (including perimeter) area capacity weight/mass <p><u>Using standard units SI (metric) and customary</u></p> <p>4.11B Perform simple conversions between different units of</p> <ol style="list-style-type: none"> length capacity weight <p><u>within the customary measurement systems.</u></p>	<p>estimate length perimeter area Metric System Customary Conversion Unit of measurement</p> <p>inch foot yard mile millimeter centimeter decimeter kilometer</p>	<p>(4.11A) Grade 3 (3.11A) use linear measurement tools to estimate and measure lengths using standard units; (B) use standard units to find the perimeter of a shape; (C) use concrete and pictorial models of square units to determine the area of two-dimensional surfaces</p> <p>Grade 5 (5.10C) select and use appropriate units and formulas to measure length, perimeter, area, and volume.</p> <p>(4.11B) First time to be presented to students</p>	<p>Greg would like to cover a wall of his room with posters. He needs to know the area of the wall before he buys the posters. The wall is 12 feet wide and 8 feet high. What is the area of the wall?</p>	<p>HSP</p> <ol style="list-style-type: none"> Pages 552-557 (customary) pages 574-577 (metric length) pages 600-607 (perimeter) pages 610-623 (area) <p>Think Math Page 710,720,730 E-lab- Length; perimeter E-lab- all measurements</p> <p>EDM Math Journal 2 pg 238 Math masters pg 330 Math Journal 2 page 239 TE page 608-609 Math Journal 2 page 246-245 TE page 616-620 Math journal 2 page 317-319 TE page 810-811 Math Journal 2 page 322-323 TE page 820-821</p> <p>Internet resources www.tmsds.org</p>



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Second Six Weeks - **Week Two and Three** - October 12-23 Algebra, Patterns, Expressions, Equations

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.6) Patterns, relationships, and algebraic thinking. The student uses patterns in multiplication and division. The student is expected to:</p> <p>(A) use patterns and relationships to develop strategies to remember basic multiplication and division facts (such as the patterns in related multiplication and division number sentences (fact families) such as $9 \times 9 = 81$ and $81 \div 9 = 9$); and</p> <p>(B) use patterns to multiply by 10 and 100.</p> <p>(4.7) Patterns, relationships, and algebraic thinking. The student uses organizational structures to analyze and describe patterns and relationships. The student is expected to describe the relationship between two sets of related data such as ordered pairs in a table.</p>	<p>4.6A MT</p> <p>4.6B MT</p> <p>4.7 MT</p>	<p>4.6A Use patterns and relationships to develop strategies to remember basic multiplication and division facts. Such as: patterns in related multiplication and division number sentences, e.g., $9 \times 9 = 81$ and $81 \div 9 = 9$.</p> <p>4.6B Use patterns to multiply by 10 and 100</p> <p>4.7 Describe the relationship between two sets of related data such as: ordered pairs in a table. Use patterns to multiply by 10 and 100</p>	<p>pattern relationship fact family order pair data table array</p>	<p>4.6A Grade 3 (3.6C) identify patterns in related multiplication and division sentences (fact families) such as $2 \times 3 = 6$, $3 \times 2 = 6$, $6 \div 2 = 3$, $6 \div 3 = 2$.</p> <p>Grade 5 (5.5A) describe the relationship between sets of data in graphic organizers such as lists, tables, charts and diagrams.</p> <p>4.6B Grade 3 (3.6B) identify patterns in multiplication facts using concrete objects, pictorial models, or technology</p> <p>Grade 5 (5.5B) identify prime and composite numbers using concrete objects, pictorial models, and patterns in factor pairs</p> <p>4.7 Grade 3 (3.7B) identify and describe patterns in a table of related number pairs based on a meaningful problem and extend the table</p> <p>Grade 5 No future direct reference in grade 5.</p>	<p>Exactly 90 players signed up to play in a baseball league. There were 10 players on each team. Which number sentence is in the same fact family as $90 : 10 = \text{----} ?$</p> <p>Mr. and Mrs. Gomez ride bikes to exercise. The table shows the total number of miles they had ridden after different numbers of days. If the pattern continues, how many miles will Mr. and Mrs. Gomez have ridden after 28 days?</p>	<p>HSP 1. Multiplication facts Chapter 4 (4.1 to 4.5) pages 96 - 109 2. Division facts Chapter 5 (5.1-5.6) pages 118-133 3. multiplication and division patterns/properties chapter 6 (6.1-6.7 and 6.9) pages 142-165</p> <p>Think Math Pages 1094-1095: 1087-1088; 1101-1103</p> <p>EDM Math Journal 1 page 52 Math masters page 253 TE pages 147-148</p> <p>Motivation Math pages 89-94</p> <p>Count on it pages 34-39 and 58-63</p> <p>Internet Resources www.tmsds.org</p>

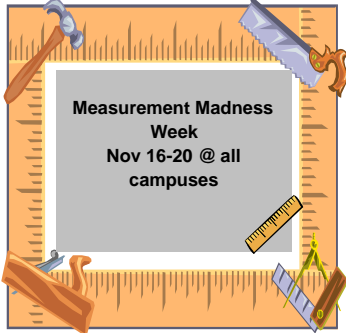
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Second Six Weeks - Week Four and Five - October 26-30 Multiplication/Division Facts Page 1

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.4) Number, operation, and quantitative reasoning. The student multiplies and divides to solve meaningful problems involving whole numbers. The student is expected to:</p> <p>(A) model factors and products using arrays and area models;</p> <p>(B) Represent multiplication and division situations in pictures, word, and number form.</p> <p>(C) Recall and apply multiplication facts through 12 x 12.</p> <p>(4.6) Patterns, relationships, and algebraic thinking. The student uses patterns in multiplication and division. The student is expected to:</p> <p>(A) use patterns and relationships to develop strategies to remember basic multiplication and division facts (such as the patterns in related multiplication and division number sentences (fact families) such as $9 \times 9 = 81$ and $81 \div 9 = 9$); and</p>	<p>4.4A IDMT</p> <p>4.4B MT</p> <p>4.4C MT</p> <p>4.6A MT</p>	<p>4.4A Model <u>factors and products</u> using</p> <p>1. arrays 2. area models</p> <p>4.4B Represent <u>multiplication</u> situations:</p> <p>1. in pictures 2. in word 3. in number</p> <p>Represent <u>division</u> situations:</p> <p>1. in pictures 2. in word 3. in number</p> <p>4.4C Recall <u>multiplication facts</u> through 12 x 12. Apply <u>multiplication facts</u> through 12 x 12.</p> <p>4.6A Use <u>patterns and relationships</u> to develop strategies to remember basic multiplication and division facts. Such as: patterns in related multiplication and division number sentences, e.g., $9 \times 9 = 81$ and $81 \div 9 = 9$</p>	<p>factor product array area model divisor dividend quotient number sentence</p>	<p>4.4A No prior experience Grade 5 (5.3D) identify common factors of a set of whole numbers</p> <p>4.4B No prior experience No future direct reference</p> <p>4.4C Grade 3 (3.4A) learn and apply multiplication facts through 12 by 12 using concrete models and objects Grade 5 No future direct reference in grade 5.</p> <p>4.6A Grade 3 (3.6C) identify patterns in related multiplication and division sentences (fact families) such as $2 \times 3 = 6$, $3 \times 2 = 6$, $6 \div 2 = 3$, $6 \div 3 = 2$. Grade 5 (5.5A) describe the relationship between sets of data in graphic organizers such as lists, tables, charts and diagrams.</p>	<p>Luis has 4 paint sets. There are 12 jars of paint in each set. Which number sentence can be used to find the total number of jars of paint Luis has? A. $12 \times 4 =$ C. $12 - 4 =$ B. $12 + 4 =$</p> <p>Justin has 11 pets on his farm. He fed each pet 12 times last week. How many times in all did he feed his pets last week?</p> <p>When Maggie went to her sister's graduation, she saw that 300 students were graduating. Maggie noticed that equal numbers of graduating students were seated in 5 different sections of the auditorium. How many graduating students were seated in 1 section?</p> <div data-bbox="1283 971 1635 1094" style="border: 1px solid blue; background-color: #e6f2ff; padding: 5px; width: fit-content;"> <p>Keep reviewing the patterns discovered the weeks before to assure memorization of multiplication facts. (4.6A)</p> </div> <div data-bbox="1318 1179 1604 1328" style="border: 1px solid yellow; background-color: #ffffcc; padding: 5px; width: fit-content;"> <p>Notice that TEKS 4.4B is only taught in the fourth grade. Multiplication facts need to be recall in 4th grade.</p> </div>	<p>HSP 1. Chapter 7 (7.1 - 7.5) pages 184-197 2. Chapter 8 (8.1-8.4) pages 206-213</p> <p>Think Math pages 418-428</p> <p>Motivation Math pages 47-52</p> <p>E-Lab Multiplication</p> <p>Count on it page 42-47</p>


4th Grade Math Scope and Sequence Overview 2009-2010

Third Six Weeks - **Week One, Two** - November 9-20 Multiplication/Division Facts **Measurement Madness I**

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.4) Number, operation, and quantitative reasoning. The student multiplies and divides to solve meaningful problems involving whole numbers. The student is expected to:</p> <p>(B) Represent multiplication and division situations in pictures, word, and number form.</p> <p>(C) Recall and apply multiplication facts through 12 x 12.</p> <p>(D) use multiplication to solve problems (no more than two digits times two--digits without technology)</p> <p>(E) use division to solve problems (no more than one digit divisors and three-digit dividends without technology)</p> <p>(4.6) Patterns, relationships, and algebraic thinking. The student uses patterns in multiplication and division. The student is expected to:</p> <p>(A) use patterns and relationships to develop strategies to remember basic multiplication and division facts (such as the patterns in related multiplication and division number sentences (fact families) such as $9 \times 9 = 81$ and $81 \div 9 = 9$); and</p>	<p>4.4B MT</p> <p>4.4C MT</p> <p>4.4D MT</p> <p>4.4E IDMT</p>	<p>4.4D Use <u>multiplication</u> to solve <u>problems</u> (no more than 2 digits times two digits without technology)</p> <p>4.4E Use <u>division</u> to solve <u>problems</u> (no more than one digit divisors and 3-digit dividends without technology)</p> <p>4.4B Represent <u>multiplication</u> situations: 1. in pictures 2. in word 3. in number</p> <p>Represent <u>division</u> situations: 1. in pictures 2. in word 3. in number</p> <p>4.4C Recall <u>multiplication facts</u> through 12 x 12. Apply <u>multiplication facts</u> through 12 x 12.</p> <p>4.6A Use <u>patterns and relationships</u> to develop <u>strategies</u> to rememeber basic <u>multiplication and division facts</u>. Such as: patterns in related multiplication and division number sentences, e.g., 9×9</p>	<p>factor product array area model divisor dividend quotient number sentence</p>	<p>4.4D Grade 3 (3.4B) solve and record multiplication problems (up to 2 digits times 1 digit) Grade 5 (5.3B) use multiplication to solve problems involving whole numbers (no more than three digits times two digits without technology)</p> <p>4.4E Grade 3 (3.4C) use models to solve division problems and use number sentences to record the solutions Grade 5 (5.3C) use division to solve problems involving whole numbers (no more than two digit divisors and three-digit dividends without technology) including interpreting the remainder within a given context</p> <p>4.4B No prior experience No future direct reference</p> <p>4.4C Grade 3 (3.4A) learn and apply multiplication facts through 12 by 12 using concrete models and objects Grade 5 No future direct reference</p> <p>4.6A see last six weeks for correlation</p> <div data-bbox="989 1317 1268 1495" style="border: 1px solid black; background-color: yellow; padding: 5px;"> <p>Notice that TEKS 4.4B is only taught in the fourth grade. Multiplication facts need to be recall in 4th grade.</p> </div>	<p>Luis has 4 paint sets. There are 12 jars of paint in each set. Which number sentence can be used to find the total number of jars of paint Luis has? A. $12 \times 4 =$ C. $12 - 4 =$ B. $12 + 4 =$</p> <p>Justin has 11 pets on his farm. He fed each pet 12 times last week. How many times in all did he feed his pets last week?</p> <p>When Maggie went to her sister's graduation, she saw that 300 students were graduating. Maggie noticed that equal numbers of graduating students were seated in 5 different sections of the auditorium. How many graduating students were seated in 1 section?</p>	<p>HSP Chapter 9 1. pages 224-229 (9.1-9.3) 2. pages 234-235 (9.5) 3. pages 236-239 (9.6) 4. pages 240-241 (9.7) 5. pages 244-245 (9.9)</p> <p>Think Math pages 418-428</p> <p>Motivation Math pages 47-76</p> <p>E-Lab Multiplication</p> <p>Count on it page 42-47</p> <div data-bbox="1591 862 1934 1192" style="border: 1px solid black; padding: 10px; text-align: center;">  <p>Measurement Madness Week Nov 16-20 @ all campuses</p> </div>


4th Grade Math Scope and Sequence Overview 2009-2010

Third Six Weeks - Week Three and Four - November 30-Dec 11 Multiplication/Division Facts/Estimation

 Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.4) B,C,D,E Refer to week one and two for these TEKS</p> <p>(4.5) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to:</p> <p>(B) use strategies including rounding and compatible numbers to estimate solutions to multiplication and division problems.</p>	<p>4.5B MT</p> <p>4.4B MT</p> <p>4.4C MT</p> <p>4.4D MT</p> <p>4.4E IDMT</p>	<p>(4.4) B,C,D,E Refer to week one and two for these TEKS.</p> <p>4.5B Use strategies to estimate solutions to:</p> <ol style="list-style-type: none"> 1. multiplication problems 2. division problems <p>Strategies include:</p> <ol style="list-style-type: none"> 1. rounding 2. compatible numbers 	<p>Estimation</p> <p>comparable numbers</p> <p>rounding</p> <p>approximately</p>	<p>(4.4) B,C,D,E Refer to week one and two for these TEKS.</p> <p>4.5B Grade 3 (3.5B) use strategies including rounding and compatible numbers to estimate solutions to addition and subtraction problems</p> <p>Grade 5 5.4 use strategies including rounding and compatible numbers to estimate solutions to addition, subtraction, multiplication, and division problems</p>	<p>Don can ride his bike 19 miles in one hour. If he rides at the same speed, about how many miles can he ride in 3 hours?</p>	

4th Grade Math Scope and Sequence Overview 2009-2010

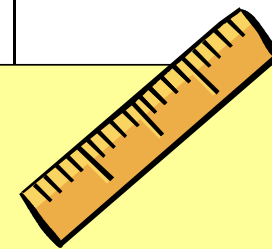
Third Six Weeks - **Week Five** - December 14-18 DATA **Review and Benchmarks Page 1**

 Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to:</p> <p>(A) Use concrete objects or pictures to make generalizations about determining all possible combinations of a given set of data or of objects in a problem situation.</p> <p>(B) interpret bar graphs</p> <div style="border: 1px solid black; background-color: yellow; padding: 5px; margin-top: 20px;"> <p>Caution: Add lessons on probability and not only combination lessons</p> </div>	<p>4.13A IDMT</p> <p>4.13B IDMT</p>	<p>4.13A <u>Use concrete objects or pictures to make generalizations about determining all possible combinations</u> of a given set of data or of object in a problem situation</p> <p>4.13B Interpret <u>bar graphs</u></p>	<p>collect organize display interpret data information table graph bar graph set of data possible combination probability</p>	<p>4.13A Grade 3 No prior experience Grade 5 (5.13B) use experimental results to make predictions (5.13C) list all possible outcomes of a probability experiment such as tossing a coin</p> <p>4.13B Grade 3 (3.13B) interpret information from pictographs and bar graphs Grade 5 (3.13A) use tables of related number pairs to make line graphs</p>	<p>Jill has a bag with 20 tiles numbered 1 to 20. If she picks out 1 tile without looking, what is the probability that the number on the tile will be an even number?</p> <p>Example for answer: 1 out of 10 in this case the correct answer is 10 out of 20</p> <p>How many more.... Than? Which two combined have a total of? How much does Have?</p>	<p>HSP</p> <p>EDM math master page 111 TE page 564-567</p> <p>Math Journal 2 page 223 TE page 571</p> <p>Think Math pages 794-828</p> <p>Motivation Math pages 161-172</p> <p>Count on it pages 82-87</p> <p>Internet resources www.tmsds.org</p>

4th Grade Math Scope and Sequence Overview 2009-2010


Third Six Weeks - **Week Five** - December 14-18 DATA **Review and Benchmarks Page 2**

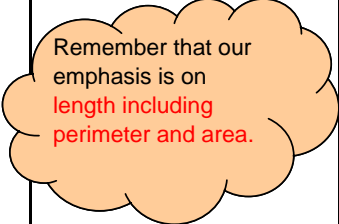
Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>Students will be able to:</p> <ol style="list-style-type: none"> 1. Estimate and use tools to determine length 2. Estimate and use tools to determine perimeter 3. Estimate and use tools to determine area 4. Perform simple conversions between different units of length with in the customay measurement system. 5. Use patterns and relationship to develop strategies to remember basic multiplication and division facts (example:fact families) 6. Use patterns to multiply by 10 and 100 7. Describe the relationship between two sets of related data such as ordered pairs in a table. 8. Model factors and products using arrays and area models. 9. Represent multiplication and division in pictures, word, and number form 10. Recall multiplication facts through 12 x 12. 11. Apply multiplication facts through 12 x 12. 12. Use multiplication to solve problems (no more than two digits times two--digits without technology) 13. Use division to solve problems (no more than one digit divisors and three-digit dividends without technology) 14. Use strategies including rounding and compatible numbers to estimate solutions to multiplication and division problems. 15. Use concrete objects or pictures to make generalizations about determining all possible combinations of a given set of data or of objects in a problem situation. 16. Interpret bar graphs <p align="center">Remember that these skills need to be reviewed and supported throughout the year with our Review Boards.</p> <p align="center">Benchmark will have some 5 questions from the previous benchmark to check on student retention of material.</p>						



4th Grade Math Scope and Sequence Overview 2009-2010

Fourth Six Weeks - Week One - January 5-8 Measuring Week Weight/Mass and Conversions

 Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>Chapter 21 (4.11) Measurement. The student applies measurement concepts. The student is expected to estimate and measure to solve problems involving length (including perimeter) and area. The student uses measurement tools to measure capacity/volume and weight/mass. The student is expected to:</p> <p>(A) Estimate and use measurement tools to determined length (including perimeter), area, capacity, and weight/mass using standard units SI (metric) and customary.</p> <p>(B) Perform simple conversions between different units of length, between different units of capacity, and between units of weight within the <u>customary measurement system</u>.</p> <p>(E) explain the difference between weight and mass</p>	<p>4.11A MT</p> <p>4.11B IDMT</p> <p>4.11E IDM</p>	<p>4.11A Estimate and use <u>measurement tools</u> to determine</p> <p>1. length (including perimeter) 2. area 3. capacity 4. weight/mass</p> <p><u>Using standard units SI (metric) and customary</u></p> <p>4.11B Perform <u>simple conversions between different units</u> of</p> <p>1. length 2. capacity 3. weight <u>within the customary measurement systems.</u></p>	<p>Estimate measure weight mass Metric System Customary Sys. Conversions Ounce pound ton kilogram miligrams gram</p>	<p>(4.11A) Grade 3 (3.11A) use linear measurement tools to estimate and measure lengths using standard units; (B) use standard units to find the perimeter of a shape; (C) use concrete and pictorial models of square units to determine the area of two-dimensional surfaces</p> <p>Grade 5 (5.10C) select and use appropriate units and formulas to measure length, perimeter, area, and volume.</p> <p>(4.11B) Grade 3 No reference at this grade level</p> <p>Grade 5 (5.10A) perform simple conversions within the same measurement system SI (metric) or customary</p> <p>(4.11E) No reference to this TEKS in grade 3 or 5</p>	<p>This area of the TEKS have not been tested yet in a TAKS test.</p> <p>Possible questions could be:</p> <p>Which of the following weights one gram?</p>	<p>HSP 1. Weight pages 558-559 (21.3) 2. Mass pages 578-579 (22.2)</p> <p>Think Math Pages 710; 720; 730</p> <p>EDM Math Journal 2 Page 238 Math Master page 330 TE pages 608-609 Math Journal 2 pages 317-319 TE pages 810-811 Math Journal 2 pages 322-323 TE 820-821</p> <p>Motivation Math Pages 155-160</p> <p>Internet Resources: www.tmsds.org</p>




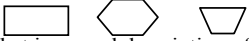
4th Grade Math Scope and Sequence Overview 2009-2010

Fourth Six Weeks - **Week Two**- January 11-15 Continuation with Data

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials								
<p>(4.7) Patterns, relationships, and algebraic thinking. The student uses organizational structures to analyze and describe patterns and relationships.</p> <p>The student is expected to describe the relationship between two sets of related data such as ordered pairs in a table.</p> <p>(4.13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to:</p> <p>(A) Use concrete objects or pictures to make generalizations about determining all possible combinations of a given set of data or of objects in a problem situation.</p> <p>(B) interpret bar graphs</p>	<p>4.13A IDMT</p> <p>4.13B IDMT</p>	<p>4.7 Describe the relationship between two sets of related data such as: ordered pairs in a table.</p> <p>4.13A Use concrete objects or pictures to make generalizations about determining all possible combinations of a given set of data or of object in a problem situation</p> <p>4.13B Interpret bar graphs</p>	<p>collect organize display interpret data information table graph bar graph set of data possible combination probability relationship order pairs</p>	<p>4.7 Grade 3 (3.7B) identify and describe patterns in a table of related number pairs based on a meaningful problem and extend the table Grade 5 No future direct reference in grade 5</p> <p>4.13A Grade 3 No prior experience Grade 5 (5.13B) use experimental results to make predictions (5.13C) list all possible outcomes of a probability experiment such as tossing a coin</p> <p>4.13B Grade 3 (3.13B) interpret information from pictographs and bar graphs Grade 5 (3.13A) use tables of related number pairs to make line graphs</p>	<p>4.7 Each number set P is paired with a number Q. The relationship for each pair of numbers is the same. If the number in set P is 11, how will you find its paired number in set Q?</p> <table border="1" data-bbox="1417 630 1570 766"> <tr> <td>Set P</td> <td>Set Q</td> </tr> <tr> <td>1</td> <td>7</td> </tr> <tr> <td>4</td> <td>10</td> </tr> <tr> <td>1</td> <td>14</td> </tr> </table> <p>4.13AB Show students different graphs and asks questions such as:</p> <p>How many more.... Than? Which two combined have a total of? How much does Have?</p>	Set P	Set Q	1	7	4	10	1	14	<p>HSP</p> <p>EDM math master page 111 TE page 564-567 Math Journal 2 page 223 TE page 571</p> <p>Think Math (4.7) pages 100-103 (4.13A) pages 794-828</p> <p>Motivation Math (4.7) pages 101-106 (4.13A) pages 161-172</p> <p>Count on it (4.13A) pages 82-87</p> <p>Internet resources www.tmsds.org</p>
Set P	Set Q													
1	7													
4	10													
1	14													


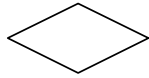
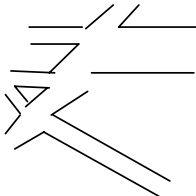

4th Grade Math Scope and Sequence Overview 2009-2010

Fourth Six Weeks - Week Three - January 18-22 Probability and Combinations

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data. The student is expected to:</p> <p>(A) Use concrete objects or pictures to make generalizations about determining all possible combinations of a given set of data or of objects in a problem situation.</p> <p>(B) interpret bar graphs</p> <p>(4.16) Underlying processes and mathematical tools. The student uses logical reasoning. (A) make generalizations from patterns or sets of examples and nonexamples</p>	<p>4.13A IDMT</p> <p>4.13B IDMT</p> <p>4.16A MT</p>	<p>4.13A Use concrete objects or pictures to make generalizations about determining all possible combinations of a given set of data or of object in a problem situation</p> <p>4.13B Interpret bar graphs</p> <p>4.16A Make generalizations from patterns or sets of examples and non-examples</p>	<p>collect organize display interpret data information table graph bar graph set of data possible combination probability possible chances outcome examples nonexamples pattern sets</p>	<p>4.13A Grade 3 No prior experience Grade 5 (5.13B) use experimental results to make predictions (5.13C) list all possible outcomes of a probability experiment such as tossing a coin</p> <p>4.13B Grade 3 (3.13B) interpret information from pictographs and bar graphs Grade 5 (3.13A) use tables of related number pairs to make line graphs</p> <p>4.16A Reads exactly the same in 3rd and 5th grade.</p>	<p>Jill has a bag with 20 tiles numbered 1 to 20. If she picks out 1 tile without looking, what is the probability that the number on the tile will be an even number?</p> <p>Example for answer: 1 out of 10 in this case the correct answer is 10 out of 20</p> <p>How many more.... Than? Which two combined have a total of? How much does Have?</p> <p>4.16A Carl drew these shapes</p>  <p>Carmella drew these shapes.</p>  <p>What is a good description of the shapes Carl drew?</p>	<p>HSP 1. Combinations (Lessons 19.1 - 19.8) Pages 496-513 2. Probability (Lessons 20.1- 20.5) Pages 522-539</p> <p>Think Math pages 794-828</p> <p>Motivation Math pages 161-172</p> <p>Count on it pages 82-87</p> <p>Internet resources www.tmsds.org</p>

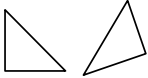
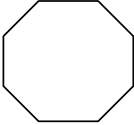
4th Grade Math Scope and Sequence Overview 2009-2010

Fourth Six Weeks - **Week Four and Five** - January 25-Feb 5 Geometry

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.8) The student identifies and describes attributes of geometric figures using formal geometric language.</p> <p>The student is expected to: (A) identify and describe right, acute, and obtuse angles</p> <p>(B) Identify and describe parallel and intersecting lines (including perpendicular lines), using concrete objects and pictorial models</p> <p>(C) Use essential attributes to define two-and three-dimensional geometric figures</p> <div data-bbox="79 1073 405 1370" style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p align="center">Math Bowl January 28 CTW</p>  </div>	<p>4.8A MT</p> <p>4.8B MT</p> <p>4.8C IDMT</p>	<p>4.8A Identify the following angles:</p> <ol style="list-style-type: none"> 1. right 2. acute 3. obtuse <p>Describe the following angles:</p> <ol style="list-style-type: none"> 1. right 2. acute 3. obtuse <p>4.8B Identify models of:</p> <ol style="list-style-type: none"> 1. parallel lines 2. Intersecting lines (including perpendicular lines) <p>Describe models of:</p> <ol style="list-style-type: none"> 1. parallel lines 2. intersecting lines (including perpendicular lines) <p>4.8C Use essential attributes to define</p> <ol style="list-style-type: none"> 1. 2-D geometric figures 2. 3-D geometric figures 	<p>Right angle acute angle obtuse angle parallel lines intersecting l perpendicular line segment line ray plane angle point 2-D figures 3-D figures attribute face vertices edge</p>	<p>(4.8A) Grade 3 No reference to TEKS</p> <p>Grade 5 (5.7)The student is expected to identify essential attributes including parallel, perpendicular, and congruent parts of two- and three-dimensional geometric figures.</p> <p>(4.8B) Grade 3 No prior reference</p> <p>Grade 5 (5.7)The student is expected to identify essential attributes including parallel, perpendicular, and congruent parts of two- and three-dimensional geometric figures.</p> <p>(4.8C) Grade 2 (2.7B) use attributes to describe how 2 two-dimensional or 2 three-dimensional geometric figures are alike or different</p> <p>Grade 5 (5.7)The student is expected to identify essential attributes including parallel, perpendicular, and congruent parts of two- and three-dimensional geometric figures.</p> <p>□</p>	<p>Show students a figure and ask which angles are obtuse?</p> <div data-bbox="1423 407 1570 483" style="text-align: center;">  </div> <p>Which streets appear to be perpendicular to each other?</p> <div data-bbox="1377 656 1570 850" style="text-align: center;">  </div> <p>Corinne made the 2 models shown by connecting straws with pieces of clay. If Corinne counts the number of straws she used in both models, what information will she have?</p> <div data-bbox="1402 1256 1577 1328" style="text-align: center;">  </div>	<p>HSP</p> <ol style="list-style-type: none"> 1. Chapter 10 (2-D Figures) Pages 258-277 2. Chapter 12 (3-D figures) Pages 314-325 <p>Think Math (4.8A) Pages 240-262</p> <p>EDM Unit 1 Check Progress Math Masters pages 387-389 TE page 389 Student Reference Book page 78-79 TE pages 26-27 TE pages 788-791 math masters page 228 TE page 29 math masters pages 367, 173, 368</p> <p>Motivation Math pages 107-124</p> <p>Internet Resources www.tmsds.org</p>

4th Grade Math Scope and Sequence Overview 2009-2010

Fourth Six Weeks - **Week Five** - February 1-5 Geometry

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.9) Geometry and spatial reasoning. The student connects transformations to congruence and symmetry. The student is expected to:</p> <p>(A) demonstrate translations, reflections, and rotations using concrete models;</p> <p>(B) use translations, reflections, and rotations to verify that two shapes are congruent; and</p> <p>(C) use reflections to verify that a shape has symmetry.</p>	<p>4.9A IDM</p> <p>4.9B MT</p> <p>4.9C MT</p>	<p>4.9B Use translations, reflections, and rotations to verify two shapes are congruent.</p> <p>4.9C Use reflections to verify that a shape has symmetry.</p>	<p>symmetry translations reflections rotations congruent transformation tessellations pattern unit</p>	<p>(4.9A) Grade 3 No reference at this grade</p> <p>Grade 5 (5.8A) sketch the results of translations, rotations, and reflections on a Quadrant I coordinate grid</p> <p>(4.9B) Grade 3: (3.9A) identify congruent two-dimensional figures; Grade 5: (5.8B) identify the transformation that generates one figure from the other when given two congruent figures on a Quadrant I coordinate grid</p> <p>(4.9C) Grade 3 (3.9B) create two-dimensional figures with lines of symmetry using concrete models and technology; and (3.9C) identify lines of symmetry in two-dimensional geometric figures</p> <p>Grade 5 No reference at this grade</p>	<p>Use Tangrams or make Tessellations</p> <p>Have students reflect, rotate and translate figures.</p>  <p>How many lines of symmetry does this shape have?</p> 	<p>HSP Chapter 11 Symmetry/Transformation/congruency pages 286-301</p> <p>Think Math page 300</p> <p>Motivation Math page 125-136</p>

4th Grade Math Scope and Sequence Overview 2009-2010

Fourth Six Weeks - Week Six - February 8-19 Fractions

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>4.2 Number, operation, and quantitative reasoning. The student describes and compares fractional parts of whole objects or sets of objects. The student is expected to:</p> <p>(A) Use concrete objects and pictorial models to generate equivalent fractions.</p> <p>(B) Model fraction quantities greater than one using concrete objects and pictorial models</p> <p>(C) Compare and order fractions using concrete objects and pictorial models.</p> <div data-bbox="115 894 359 1000" style="border: 1px solid black; padding: 2px; margin-top: 10px;">Students should use manipulatives as introduce to the concept of equivalent fractions</div> <div data-bbox="115 1036 350 1122" style="border: 1px solid black; padding: 2px; margin-top: 10px;">Make fraction parts of shaded and non shaded areas</div>	<p>4.2A IDMT</p> <p>4.2B IDMT</p> <p>4.2C IDMT</p>	<p>4.2A <u>Use objects and pictorial models to generate equivalent fractions.</u></p> <p>4.2B <u>Model fraction quantities greater than one using pictorial models</u></p> <p>4.3C <u>Compare and order fractions using pictorial models.</u></p>	<p>numerator denominator equivalent fractional part whole object set of objects equal parts mixed number</p>	<p>4.2A Grade 3 (3.2D) construct concrete models of equivalent fractions for fractional parts of whole objects Grade 5 (5.2A) generate a fraction equivalent to a given fraction such as 1/2 and 3/6 or 4/12 and 1/3</p> <p>4.2B Grade 3 (3.2C) use fraction names and symbols to describe fractional parts of whole objects or sets of objects Grade 5 (5.2B) generate a mixed number equivalent to a given improper fraction or generate an improper fraction equivalent to a given mixed number</p> <p>4.2C Grade 3 (3.2B) compare fractional parts of whole objects or sets of objects in a problem situation using concrete models Grade 5 (5.2C) compare two fractional quantities in problem-solving situations using a variety of methods, including common denominators</p>	<p>Give equivalent and non equivalent fractions for the shaded area.</p> <div data-bbox="1423 451 1570 581" style="text-align: center;"> </div> <p>The model is shaded to show which fraction?</p> <div data-bbox="1411 699 1570 773" style="text-align: center;"> </div> <p>Compare models and pictures of fractional parts using =, <; and ></p> <div data-bbox="1369 995 1591 1097" style="border: 1px solid black; padding: 2px; margin-top: 10px;">include improper fractions in your possible answers</div>	<p>HSP Chapte 15</p> <p>EDM TE pages 518-520 TE pages 541-542 TE pages 512-515 TE pages 546-547 TE pages 550-551 Pages 554-556</p>

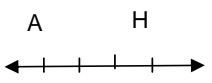
4th Grade Math Scope and Sequence Overview 2009-2010

Fourth Six Weeks - Week Six - February 5-19 Fractions/Decimals

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.1B) Use place value to read, write, compare, and order decimals involving tenths and hundredths, including money, using concrete objects and pictorial models.</p> <p>4.2Number, operation, and quantitative reasoning. The student describes and compares fractional parts of whole objects or sets of objects. The student is expected to:</p> <p>(D) Relate decimals to fractions that name tenths and hundredths using concrete objects and pictorial models</p> <p>4.3Number, operation, and quantitative reasoning. The student adds and subtracts to solve meaningful problems involving whole numbers and decimals. The student is expected to:</p> <p>(B) add and subtract decimals to the hundredths place using concrete objects and pictorial models</p>	<p>4.1(B) IDMT</p> <p>4.2D IDMT</p> <p>4.3B IDMT</p>	<p>4.1B Use <u>place value to read, write, compare, and order decimals involving tenths and hundredths, using concrete objects and pictorial models including money.</u></p> <p>4.2D Relate <u>decimals to fractions</u> that name tenths and hundredths using pictorial models</p> <p>4.3B <u>add and subtract decimals to the hundredths place using concrete objects and pictorial models</u></p>	<p>tenth hundredth place value pictorial model</p>	<p>4.1B Grade 3 (3.1C) determine the value of a collection of coins and bills. Grade 5 (5.1B) use place value to read, write, compare, and order decimals through the thousandths place</p> <p>4.2D Grade 3 No reference at this grade Grade 5 (5.2D) use models to relate decimals to fractions that name tenths, hundredths, and thousandths</p> <p>4.3B Grade 3 (3.1C) determine the value of a collection of coins and bills Grade 5 (5.3A) use addition and subtraction to solve problems involving whole numbers and decimals</p>	<p>At the school store Rochelle bought a package of pens for \$1.34 and a set of map pencils for \$2.78. What was the total amount she paid for school supplies?</p> <p>This type of problem is usually presented with pictorial models.</p> <p>The model is shaded represents $\frac{2}{3}$. Which decimal does the model represent?</p> <p>At the school sore Rochelle bought a package of pens for \$1.34 and a set of map pencils for \$2.78. What was the total amount she paid for school supplies?</p> <p>This type of problem is usually presented with pictorial models.</p>	<p>HSP Chapter 16 and 17</p> <p>EDM TE pages 518-520 TE pages 541-542 TE pages 512-515 TE pages 546-547 TE pages 550-551 Pages 554-55</p>

4th Grade Math Scope and Sequence Overview 2009-2010

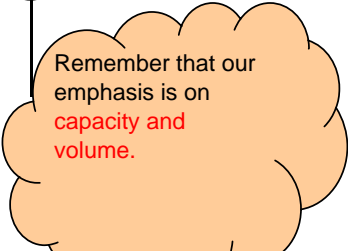
Fifth Six Weeks - Week One - February 22-26 Fractions and Decimals

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>Refer to Weeks five and six of the 4th six weeks for TEKS: 4.2A,B,C,D</p> <p>4.10 Geometry and spatial reasoning. The student recognizes the connection between numbers and their properties and points on a line.</p> <p>The student is expected to locate and name points on a number line using whole numbers, fractions such as halves and fourths, and decimals such as tenths.</p>	<p>4.10 IDMT</p>	<p>4.10 locate and name points on a number line using: 1. whole numbers 2. fractions (such as halves and fourths) 3. decimals (such as tenths)</p>	<p>number line points</p>	<p>4.10 Grade 3 (3.10) Geometry and spatial reasoning. The student recognizes that a line can be used to represent numbers and fractions and their properties and relationships.</p> <p>Grade 5 (5.9) Geometry and spatial reasoning. The student recognizes the connection between ordered pairs of numbers and locations of points on a plane.</p>	<p>Which point on the number line best represents $\frac{1}{4}$?</p> <p align="center">  </p> <p>Which number is best represented by Point P on the number line?</p> <p>What number on the number line does point H best represent?</p>	<p>HSP glances of this TEKS are found in Unit 6</p>

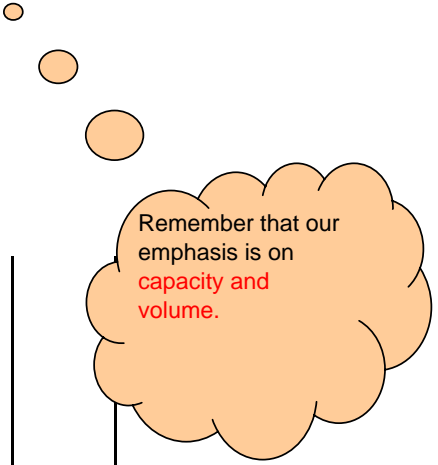
4th Grade Math Scope and Sequence Overview 2009-2010

Fifth Six Weeks - Week Two - March 1-5 Capacity/Volume

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.11) Measurement. The student applies measurement concepts. The student is expected to estimate and measure to solve problems involving length (including perimeter) and area. The student uses measurement tools to measure capacity/volume and weight/mass. The student is expected to:</p> <p>(A) Estimate and use measurement tools to determine length (including perimeter), area, capacity, and weight/mass using standard units SI (metric) and customary.</p> <p>(B) Perform simple conversions between different units of length, between different units of capacity, and between units of weight within the customary measurement system.</p> <p>(C) Use concrete models of standard cubic units to measure volume.</p> <p>(D) estimate volume in cubic units</p>	<p>4.11A MT</p> <p>4.11B IDMT</p> <p>4.11C DM</p> <p>4.11D DM</p>	<p>4.11A Estimate and use measurement tools to determine</p> <ol style="list-style-type: none"> length (including perimeter) area capacity weight/mass <p><u>Using standard units SI (metric) and customary</u></p> <p>4.11B Perform simple conversions between different units of</p> <ol style="list-style-type: none"> length capacity weight <p><u>within the customary measurement systems.</u></p>	<p>Estimate measure weight mass Metric System Customary Sys. Conversions liter milliliter cup gallon quart volume cubic units</p>	<p>(4.11A) Grade 3 (3.11A) use linear measurement tools to estimate and measure lengths using standard units; (B) use standard units to find the perimeter of a shape; (C) use concrete and pictorial models of square units to determine the area of two-dimensional surfaces</p> <p>Grade 5 (5.10C) select and use appropriate units and formulas to measure length, perimeter, area, and volume.</p> <p>(4.11B) Grade 3 No reference at this grade level</p> <p>Grade 5 (5.10A) perform simple conversions within the same measurement system SI (metric) or customary</p>	<p>Which of the following holds only 1 milliliter of water?</p> <p>Pictures of dropper, water bottle, aquarium and water tower.</p> <p>Which is the best estimate of the capacity of a coffee cup?</p>	<p>HSP Chapter 24</p> <p>Think Math pages 710;720;730</p> <p>Motivation Math pages 155-160</p>



Create Gallon Man with students
Great Place to create
Brace map with the
gallon.



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4th Grade Math Scope and Sequence Overview 2009-2010

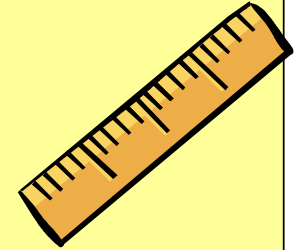
Fifth Six Weeks - **Week Three** - March 8-12 **REVIEW** Measurement

Standards	Instr. level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
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Since the whole year the emphasis has been on measurement, during this week teachers will review the concepts of measurement.

Students will be able to:


1. Estimate and use tools to determine length using standard units SI (metric) and customary.
2. Estimate and use tools to determine perimeter using standard units SI (metric) and customary.
3. Estimate and use tools to determine area using standard units SI (metric) and customary.
4. Estimate and use tools to determine capacity using standard units SI (metric) and customary.
5. Estimate and use tools to determine weight/mass using standard units SI (metric) and customary.
6. Perform simple conversions between different units of length with in the customay measurement system.
7. Perform simple conversions between different units of capacity with in the customay measurement system.
8. Perform simple conversions between different units of weight with in the customay measurement system.
9. Use concrete models of standard cubic units to measure volume.
10. Estimate volume in cubic units.
11. Explain the difference between weight and mass
12. Use a thermometer to measure temperature and changes in temperature
13. Use tools such as a clock with gears or a stopwatch to solve problems involving elapsed time



Remember that these skills need to be reviewed and supported throughout the year with our Review Boards.


4th Grade Math Scope and Sequence Overview 2009-2010

Fifth Six Weeks - **Week Four** - March 22-26 Review and MOCK TEST

 Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>Students will be able to:</p> <ol style="list-style-type: none"> 1. Describe the relationship between two sets of related data such as ordered pairs in a table. 2. Use concrete objects or pictures to make generalizations about determining all possible combinations of a given set of data or of objects in a problem situation 3. Interpret bar graphs 4. Make generalizations from patterns or sets of examples and nonexamples. 5. Identify and describe right, acute, and obtuse angles. 6. Identify and describe parallel and intersecting (including perpendicular) lines using concrete objects and pictorial models. 7. Use essential attributes to define two- and three- dimensional geometric figures 8. Demonstrate translations, reflections, and rotations using concrete models. 9. Use translations, reflections, and rotations to verify that two shapes are congruent. 10. Use reflections to verify that a shape has symmetry. 11. Use concrete objects and pictorial models to generate equivalent fractions 12. model fraction quantities greater than one using concrete objects and pictorial models 13. compare and order fractions using concrete objects and pictorial models 14. relate decimals to fractions that name tenths and hundredths using concrete objects and pictorial models 15. Use place value to read, write, compare and order decimals involving tenths and hundredths, including money, using concrete objects and pictorial models 16. Add and subtract decimals to the hundredths place using concrete objects and pictorial models 17. Locate and name points on a number line <p align="center">Remember that these skills need to be reviewed and supported throughout the year with our Review Boards.</p>						


4th Grade Math Scope and Sequence Overview 2009-2010

Fifth Six Weeks - **Week Five,six and seven** - March 29 - April 16- Review for TAKS

Standards 	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>Suggestions for Review:</p> <ol style="list-style-type: none"> 1. Dessagragate Data by TEKS as you have done it for every benchmark with your math leader. (item Analysis and Student Analysis) 2. Target the items that are between 69% and 60% and less than 60%. 3. You might want to group your students according to ability by TEKS to target the deficient areas. 4. Do not forget to go back to the concrete for those concepts that students are not understanding and move them from the concrete to the representations. 5. Make sure to incorporate Marzano's research-based strategies to increase results: Identifying similarities and differences, summarizing and note taking, reinforcing effort and providing recognition, nonlinguistic representations, cooperative learning, setting objectives and providing feedback, generating and testing hypotheses, cues, questions and advance organizers. 6. Try to figure out students misunderstandings and reasoning. It is important to know what the student is thinking to try to reteach the conctect properly. 						<p>Review Materials:</p> <ol style="list-style-type: none"> 1. Motivation Math 2. Review Boards 3. Jeopardy Games 4. Study Guides from TEA 5. On line practice test at TEA website


4th Grade Math Scope and Sequence Overview 2009-2010

Sixth Six Weeks - **Week One** - April 19-23 Review for TAKS

Standards 	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>Suggestions for Review: This is the last week you have to review. Keep it POSITIVE!!</p> <ol style="list-style-type: none"> 1. Dessagragate Data by TEKS as you have done it for every benchmark with your math leader. (item Analysis and Student Analysis) 2. Target the items that are between 69% and 60% and less than 60%. 3. You might want to group your students according to ability by TEKS to target the deficient areas. 4. Do not forget to go back to the concrete for those concepts that students are not understanding and move them from the concrete to the representations. 5. Make sure to incorporate Marzano's research-based strategies to increase results: Identifying similarities and differences, summarizing and note taking, reinforcing effort and providing recognition, nonlinguistic representations, cooperative learning, setting objectives and providing feedback, generating and testing hypotheses, cues, questions and advance organizers. 6. Try to figure out students misunderstandings and reasoning. It is important to know what the student is thinking to try to reteach the content properly. 						<p>Review Materials:</p> <ol style="list-style-type: none"> 1. Motivation Math 2. Review Boards 3. Jeopardy Games 4. Study Guides from TEA 5. On line practice test at TEA website 6. Informational Booklets


4th Grade Math Scope and Sequence Overview 2009-2010

Sixth Six Weeks - **Week Two** - April 26-30 **Math TAKS April 27th and introduction to Math Project**

 Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.14) Underlying processes and mathematical tools. The student applies Grade 4 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:</p> <p>(A) identify the mathematics in everyday situations;</p> <p>(D) use tools such as real objects, manipulatives, and technology to solve problems.</p> <p>(4.15) Underlying processes and mathematical tools. The student communicates about Grade 4 mathematics using informal language. The student is expected to:</p> <p>(A) explain and record observations using objects, words, pictures, numbers, and technology; and</p> <p>(B) relate informal language to mathematical language and symbols.</p>	<p>4.14A MT</p> <p>4.14D RM</p> <p>4.15A RM</p> <p>4.15B MT</p>	<p>4.14A Identify <u>the mathematics in everyday situations</u></p> <p>4.15B Relate <u>informal language to mathematical language and symbols</u></p>		<p>These TEKS are exactly the same in 3rd and 5th grade</p>	<p>A class is going on a field trip. Each group of 5 students will need an adult helper. What can the teacher do to find out how many adult helpers are needed?</p>	<p>EDM Volume 2 Teacher Edition Pages 882-913</p>
<p align="center">Have students work in groups and choose one of seven projects listed on the back of EDM Volume 2 for teacher. Pages 882-913 TE.</p> <p>Project 1: Making a Cutaway Globe Project 2: Using a Magnetic Compass Project 3: A Carnival Game Project 4: Making a Quilt Project 5: Which Soft drink is the best buy? Project 6: Building and viewing structures Project 7: Numbers, Maya Style</p> <p>Students will have several weeks to work on this project and presented before the end of the year. Math Leaders will collect samples from each classroom.</p>						


4th Grade Math Scope and Sequence Overview 2009-2010

Sixth Six Weeks - **Week Three** - May 3-7 Interactive Lessons

 Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials														
<p>4.14 Underlying processes and mathematical tools. The student applies Grade 4 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:</p> <p>(A) identify the mathematics in everyday situations</p> <p>(B) solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness</p> <p>(C) select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem</p>	<p>4.14A MT</p> <p>4.14B MT</p> <p>4.14C MT</p>	<p>4.14A Identify the mathematics in everyday situations</p> <p>4.14B Solve problems that incorporate:</p> <ol style="list-style-type: none"> understand the problem making a plan. carrying out the plan evaluating the solution for reasonableness <p>4.14C Select or develop an appropriate problem-solving plan or strategy Plan/Strategies include:</p> <ol style="list-style-type: none"> Draw a picture Looking for a pattern Systematic guessing and checking Acting it out Making a table Working a simpler problem Working backwards to solve a problem. 	<p>systematic guess check strategies estimation rounding compatible numbers</p>	<p>These TEKS are exactly the same in 3rd and 5th grade</p> <div data-bbox="856 646 1312 1047" style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin: 20px auto;"> <p>This week the concentration is on Systematic Guessing and Checking. This process will help students with their estimation and number sense.</p> </div>	<p>1. Jenna has 12 days left to read a 192-page book for a report. She has already read 60 pages. Which would be the best way for Jenna to find how many pages she should read each day to finish the book on time.</p> <p>2. Mr. Henderson is a guest reader for 6 classes at Thompson Elementary School. He plans to read a different story to each of the classes listed below. Mr. Henderson can stay for only 2 ¼ hours. Which strategy can he use to find whether he has enough time</p> <table border="1" data-bbox="1354 1044 1572 1347" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Class</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>23 min.</td> </tr> <tr> <td>2</td> <td>23 min.</td> </tr> <tr> <td>3</td> <td>23 min.</td> </tr> <tr> <td>4</td> <td>23 min.</td> </tr> <tr> <td>5</td> <td>23 min.</td> </tr> <tr> <td>6</td> <td>23 min.</td> </tr> </tbody> </table>	Class	Time	1	23 min.	2	23 min.	3	23 min.	4	23 min.	5	23 min.	6	23 min.	<p>Problem Solver I and II books Count on it Books</p>
Class	Time																			
1	23 min.																			
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4th Grade Math Scope and Sequence Overview 2009-2010

Sixth Six Weeks - Week Four - May 10-14 Problem Solver

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials														
<p>4.14 Underlying processes and mathematical tools. The student applies Grade 4 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:</p> <p>(A) identify the mathematics in everyday situations</p> <p>(B) solve problems that incorporate understanding the problem, making a plan, carrying out the plan, and evaluating the solution for reasonableness</p> <p>(C) select or develop an appropriate problem-solving plan or strategy, including drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table, working a simpler problem, or working backwards to solve a problem</p> <p>(4.16) Underlying processes and mathematical tools. The student uses logical reasoning. The student is expected to:</p> <p>(A) make generalizations from patterns or sets of examples and nonexamples;</p>	<p>4.14A MT</p> <p>4.14B MT</p> <p>4.14C MT</p> <p>4.16A MT</p>	<p>4.14A <u>Identify the mathematics in everyday situations</u></p> <p>4.14B Solve problems that incorporate:</p> <ol style="list-style-type: none"> 1. understand the problem 2. making a plan. 3. evaluating the solution for reasonableness <p>4.14C <u>Select or develop an appropriate problem-solving plan or strategy</u> Plan/Strategies include:</p> <ol style="list-style-type: none"> 1. Draw a picture 2. Looking for a pattern 3. Systematic guessing and checking 4. Acting it out 5. Making a table 6. Working a simpler problem 7. Working backwards to solve a problem. <p>4.16A <u>Make generalizations from patterns or sets of examples and non-examples.</u></p>	<p>patterns generalization unit examples nonexamples sets strategies</p>	<p>These TEKS are exactly the same in 3rd and 5th grade</p> <div data-bbox="827 618 1283 1300" style="border: 1px solid black; border-radius: 50%; padding: 10px; width: fit-content; margin: 20px auto;"> <p>This week the concentration is on Looking for a pattern. This process is crucial for students to see relationship between numbers. The lessons also need to incorporate TEKS 4:16 A where students are making generalizations from</p> </div>	<div data-bbox="1402 342 1478 407" style="text-align: center;">  </div> <p>1. Dave washes the dishes every day. If he washes the dishes on Aug 3, on which of the following days will he NOT have to wash the dishes?</p> <p>2. Mr. Henderson is a guest reader for 6 classes at Thompson Elementary School. He plans to read a different story to each of the classes listed below. Mr. Henderson can stay for only 2 ¼ hours. Which strategy can he use to find whether he has enough time</p> <table border="1" data-bbox="1356 1073 1572 1382" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Class</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td align="center">1</td> <td align="center">23 min.</td> </tr> <tr> <td align="center">2</td> <td align="center">23 min.</td> </tr> <tr> <td align="center">3</td> <td align="center">23 min.</td> </tr> <tr> <td align="center">4</td> <td align="center">23 min.</td> </tr> <tr> <td align="center">5</td> <td align="center">23 min.</td> </tr> <tr> <td align="center">6</td> <td align="center">23 min.</td> </tr> </tbody> </table>	Class	Time	1	23 min.	2	23 min.	3	23 min.	4	23 min.	5	23 min.	6	23 min.	<p>Problem Solver I and II books Count on it Books</p>
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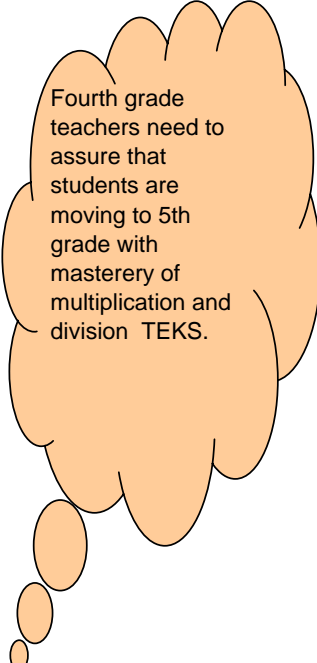
4th Grade Math Scope and Sequence Overview 2009-2010

Sixth Six Weeks - **Week Five** - May 17-21 Preparing for Measuring Madness plus **Assessment**

Standards 	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>Let students build and practice activity that they will be hosting during the Measurement Madness event. The event will take place during the week of May 24-28 at each campus. Your math leader has given you details of the event by now. Remember that the purpose of this event is to review measurement concepts.</p> <p>You will also be given an open ended test to your students based on TEKS 4.14ABC; 4.15AB; 4.16AB</p> <p>Students can also work with EDM Math Projects</p>						

4th Grade Math Scope and Sequence Overview 2009-2010

Sixth Six Weeks - **Week Six** - May 24-28 Measurement Madness II

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.4) Number, operation, and quantitative reasoning. The student multiplies and divides to solve meaningful problems involving whole numbers. The student is expected to:</p> <p>(C) Recall and apply multiplication facts through 12 x 12.</p> <p>(4.6) Patterns, relationships, and algebraic thinking. The student uses patterns in multiplication and division. The student is expected to:</p> <p>(A) use patterns and relationships to develop strategies to remember basic multiplication and division facts (such as the patterns in related multiplication and division number sentences (fact families) such as $9 \times 9 = 81$ and $81 \div 9 = 9$); and</p>		<p>4.4C Recall multiplication facts through 12 x 12. Apply multiplication facts through 12 x 12.</p> <p>4.6A Use patterns and relationships to develop strategies to remember basic multiplication and division facts. Such as: patterns in related multiplication and division number sentences, e.g., $9 \times 9 = 81$ and $81 \div 9 = 9$</p>		<p>4.4C Grade 3 (3.4A) learn and apply multiplication facts through 12 by 12 using concrete models and objects Grade 5 No future direct reference in grade 5.</p> <p>4.6A Grade 3 (3.6C) identify patterns in related multiplication and division sentences (fact families) such as $2 \times 3 = 6$, $3 \times 2 = 6$, $6 \div 2 = 3$, $6 \div 3 = 2$. Grade 5 (5.5A) describe the relationship between sets of data in graphic organizers such as lists, tables, charts and diagrams.</p>	<p>Luis has 4 paint sets. There are 12 jars of paint in each set. Which number sentence can be used to find the total number of jars of paint Luis has? A. $12 \times 4 =$ C. $12 - 4 =$ B. $12 + 4 =$</p> <p>Justin has 11 pets on his farm. He fed each pet 12 times last week. How many times in all did he feed his pets last week?</p> <p>When Maggie went to her sister's graduation, she saw that 300 students were graduating. Maggie noticed that equal numbers of graduating students were seated in 5 different sections of the auditorium. How many graduating students were seated in 1 section?</p>	 <p>Fourth grade teachers need to assure that students are moving to 5th grade with mastery of multiplication and division TEKS.</p>
Measurement Madness II						
Review Open ended Assessment with students						

4th Grade Math Scope and Sequence Overview 2009-2010

Sixth Six Weeks - **Week Seven**- May 31 - June 4 Project: Choice Week

Standards	Instr. Level	Kilgo Depth of Thinking	Vocabulary	Vertical Alignment	Sample Questions	Resources/ Materials
<p>(4.14) Underlying processes and mathematical tools. The student applies Grade 4 mathematics to solve problems connected to everyday experiences and activities in and outside of school. The student is expected to:</p> <p>(A) identify the mathematics in everyday situations;</p> <p>(D) use tools such as real objects, manipulatives, and technology to solve problems.</p> <p>(4.15) Underlying processes and mathematical tools. The student communicates about Grade 4 mathematics using informal language. The student is expected to:</p> <p>(A) explain and record observations using objects, words, pictures, numbers, and technology; and</p> <p>(B) relate informal language to mathematical language and symbols.</p>	<p>4.14A MT</p> <p>4.14D RM</p> <p>4.15A RM</p> <p>4.15B MT</p>	<p>4.14A Identify <u>the mathematics in everyday situations</u></p> <p>4.15B Relate <u>informal language to mathematical language and symbols</u></p>		<p>These TEKS are exactly the same in 3rd and 5th grade</p>	<p>A class is going on a field trip. Each group of 5 students will need an adult helper. What can the teacher do to find out how many adult helpers are needed?</p>	<p>EDM Volume 2 Teacher Edition Pages 882-913</p>
<p>Groups will present Projects. You might want to consider an audience for your presentation. You can invite parents or another class to see your presentations.</p> <p>Project 1: Making a Cutaway Globe Project 2: Using a Magnetic Compass Project 3: A Carnival Game Project 4: Making a Quilt Project 5: Which Soft drink is the best buy? Project 6: Building and viewing structures Project 7: Numbers, Maya Style</p> <p>Students will have several weeks to work on this project and presented before the end of the year. Math Leaders will collect samples from each classroom.</p>						