Instructional Guide

Grade Level _*Fifth Grade*_ Subject _*MATH*_____ School System__*Pickens County*

School Year 2011-2012

Time Period (Pacing – when)	State Assessment Correlations	Standards/ Components (Pacing – what)	Resources/ Activities (Pacing – how) Curricular Alignment	Date of Common Formative Assessment (Pacing – how well)	Mapping Comments (What works what needs adjustment)
1st Six Weeks					
	ARMT 1	5.1.a Demonstrate concepts of number sense by comparing whole numbers through millions place. 5.1.B. 2,a. Determining the place value of a digit in a whole number through the millions.	5.1.a Saxon pp. 12,16,25,162,263; 313. Use additional practice reinforce vocabulary: number sense; compare; order, expand, whole, greater than, less than, least to greatest, greatest to least.		
	ARMT 1	5.1.c Demonstrate concepts of number sense by rounding whole numbers through millions place. 5.1.B.2,a. Determining the place value of a digit in a whole number through the millions.	5.1.c. Saxon pp.8,9,16-17,239-9,264. Additional practice needed. Reinforce vocabulary; expanded notation; standard form; place value-McGraw/Hill- Lesson 1.5. pg. 14-17; Workbook-Practice, Enrichment; Re-teach Lesson 1-5 -Voyager Math- Module 1 www.myskillstutor.com www.mmhmath.com		

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	ARMT 1	5.1.d Demonstrate concepts of number sense by expanding whole numbers through millions place. 5.1.B. 2,a. Determining the place value of a digit in a whole number	5.1.d. Saxon pp. 338A; 340,349, 350-51, 548A, 549, 551, 616, 323. Provide additional practice Reinforce vocabulary; expanded notation; standard form; place value. McGraw/Hill Lesson 2.1. pg. 24-26. Workbook; Practice; Re-teach; Enrichment Lesson 2.1. www.myskillstutor.com www.mmhmath.com www.augusta.k12.va.us		

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	ARMT 1	5.1.e Demonstrate number sense by comparing decimals to the thousandths place. 5.1.B.2.b.Determining the place value of a digit in a decimal through the thousandths place.	5.1.e. Saxon pp. 537, 549 Provide additional practice reinforce vocabulary: round McGraw/Hill Lesson 1.4. pg. 10-13. Workbook; Practice; Re-teach; Enrichment Lesson 1.4. www.myskillstutor.com www.mmhmath.com www.augusta.k12.va.us		

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	ARMT 1	5.1.f. Demonstrate number sense by ordering decimals to the thousandths place. 5.1.B.2.b.Determining the place value of a digit in a decimal through the thousandths place.	5.1.b.2. Saxon pp. 332-334, 338-340,344-345, 548-550 (lesson 66,67,68, and 106) vocabulary: compare, less than,<, greater than, >, order, expand, expanded form; reinforce vocabulary, more practice pp. 651 (lesson 68); scattered Lesson 30, 71, INV 2, 3 (percents 100) McGraw/Hill Lesson 27. pg. 632-37. Workbook; Practice; Re-teach; Enrichment Lesson 27. www.myskillstutor.com www.mmhmath.com www.augusta.k12.va.us		

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2nd Six Weeks					
	ARMT 7	5.7.1.a Write a number sentence for a problem expressed in words. 5.7.B. 1. Expressing unknowns in equations using variables. Example: 84 - x = 27	5.7 Saxon pp. 239;121, 126 Provide additional practice reinforce vocabulary; all together; number sentence; combined McGraw/Hill Lesson Chapter 18.Workbook; Practice; Re-teach; Enrichment Lesson 18. Extra Practice in McGraw/Hill Lesson Planners pg. 33 Voyager Math www.myskillstutor.com www.mmhmath.com www.augusta.k12.va.us		

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	ARMT 2	5.2.1. Solve problems involving operations on whole numbers, including addition of seven digits numbers. 5.2.2. Solve problems involving operations on whole numbers, including subtraction of seven-digit numbers.	5.2.a. Saxon pp. 20, 34, 39, 62, 637, 638, 639. Provide more practice with larger numbers. Reinforce vocabulary: operation; whole number; combined; about at least; different McGraw/Hill Lesson 1.6. & 2.3 pg. 18 & 32. Workbook; Practice; Re-teach; Enrichment Lesson 1.6 & 2.3. www.myskillstutor.com www.mmhmath.com www.edhelper.com		
	ARMT 2	5.2.3. Solve problems involving operations on whole numbers, including multiplication with two-digit multipliers. 5.2. B.1.a. Estimating products	5.2. b. Saxon pp. 58, 67. 77. 82, 137, 258, 639, 642, 647 Provide additional material reinforce vocabulary; multiplier; product, including tax; not including tax McGraw/Hill Chapter 3.6. pg. 70; Workbook; Practice; Re-teach; Enrichment Lesson 3.6. Voyager Math		

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Time Period **(Pacing – when)**	ARMT/ OR AHSGE	**Standards/ Components** **(Pacing – what)**	**Resources/ Activities** **(Pacing – how)** **Curricular Alignment**	**Date of Common Formative Assessment** **(Pacing – how well)**	**Mapping Comments (What works what needs adjustment)**
	ARMT 3 AHSGE Standard VII Objective 8	5.3a. Solve word problems that involve decimals. 5.3.B.1.a Demonstrating computational fluency with addition, 5.3.B 1.b Demonstrating computational fluency with subtraction. 5.3.B 1.c Demonstrating computational fluency with multiplication. 5.3.B1.d Demonstrating computational fluency with division of decimals. 5.3.B.2.a Converting fractions and mixed numbers to decimals and percents.	5.3.a Saxon pp. 43, 48, 72, 589 Use teacher made developed material; reinforce vocabulary; at least		
	ARMT 6	5.6.1.a Demonstrate the commutative, associative, and identity property of addition.	5.6.a. Saxon pp.20, 21, 116. Provide additional practice. McGraw/Hill Lesson 2.4. Pg.34-36. Workbook; Practice; Re-teach; Enrichment Lesson		

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	ARMT 6	5.6.2. b. Demonstrate the commutative, associative, identity property of multiplication of whole numbers. 5.6.B.1 Recognizing the distributive property of multiplication over addition. Example: 25 (11 + 32) = (25 x 11) + (25 x 32)	5.6.b. Saxon pp 68, 82-83, 88, 116, 407, 449 McGraw/Hill Chapter 3. pg. 54-60. Workbook; Practice; Re-teach; Enrichment Lesson 3. Voyager Math Module 1 www.myskillstutor.com www.mmhmath.com www.edhelper.com		

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3rd Six Weeks					
	ARMT 2	5.2.4. a. Solve problems involving operations on whole numbers, including division with two-digit divisors. 5.2.B.4. Identifying prime and composite numbers through 100. 5.2.B5. Simplifying expressions with exponents 2 or 3. 5.2.B.6.a Using mental computation strategies to solve addition. 5.2.B. 6.b. Using mental computation strategies to subtraction problems with three-digit numbers. 5.2.B.7.a. Using mental computation strategies to solve multiplication problems with three- and one-digit factors. 5.2.B.7.b. Using mental computation strategies to divide problems with two-three-and one digit factors. and a one-digit divisor.	5.2.4.a. Saxon pp 87, 91, 123, 207, 273, 481, 640, 641. Use additional resources reinforce vocabulary; greatest; explain your reasoning. Use additional resources. McGraw/Hill Lesson 1.6. & 2.3 pg. 18 & 32. Workbook; Practice; Re-teach; Enrichment Lesson 1.6 & 2.3. www.myskillstutor.com www.mmhmath.com www.edhelper.com		

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	ARMT 2	5.2.B.2.b. Estimating quotients	5.2. B.2.b. Saxon pp. 313-316, 490-494, vocabulary; compare, order, whole number, greater than, less than, <,>, least, greatest to least, least to greatest, closest; use content standard 12 ARMT review to reinforce estimating lessons, reinforce vocabulary. McGraw/Hill Chapter 5.5. pg. 118; Workbook; Practice; Re-teach; Enrichment Lesson 5.5 Voyager Math www.myskillstutor.com www.mmhmath.com		
	ARMT 2	5.2.B.3. Applying divisibility rules of 2, 3, 4, 5, 6, 9, and 10 to problems with dividends of four or more digits	5.2.B.3. Saxon pp. 106-108 , 207-210 vocabulary; operation, whole number, divisor, exactly; reinforce division algorithm. McGraw/Hill Chapter 5.5. pg. 118; Workbook; Practice; Re-teach; Enrichment Lesson 5.5 Voyager Math www.myskillstutor.com		

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4th Six Weeks					
	ARMT 3 AHSGE Standard VII Objective 8	5.3a. Solve word problems that involve decimals. 5.3.B.1.a Demonstrating computational fluency with addition, 5.3.B 1.b Demonstrating computational fluency with subtraction. 5.3.B 1.c Demonstrating computational fluency with multiplication. 5.3.B1.d Demonstrating computational fluency with division of decimals. 5.3.B.2.a Converting fractions and mixed numbers to decimals and percents.	5.3.a. Saxon pp 134, 170. Additional practice lesson 6, 9, 10, INV 1, 11, 13, 14, 16, 17, 62. McGraw/Hill Chapter 3.6. pg. 70; Workbook; Practice; Re-teach; Enrichment Lesson 3.6. Voyager Math www.myskillstutor.com www.mmhmath.com		

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	ARMT 5	5.5.B.1.a Locating fractions 5.5.B.1.b Locating decimals less than zero on a number line.	5.5. Saxon pp. 53-54, 128-129, 508. Reinforce vocabulary; number line, negative temperatures, reinforce by using technology, more practice to reach mastery McGraw/Hill Lesson 9.4 . pg. 206-08. Workbook; Practice; Re-teach; Enrichment Lesson 9.4. www.myskillstutor.com www.mmhmath.com www.mathgoodies.com		

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	ARMT 9 AHSGE Standard V Objective 1	5.9.1. Construct components of the Cartesian plane, including the x-axis, y-axis, origin, and quadrants. 5.9.B.1 Locating ordered pairs on the Cartesian plane.	5.9 Saxon pp 521 reinforce vocabulary; Cartesian plane; x-axis; y-axis; origin; quadrant; locate point. McGraw/Hill Lesson 17.5 pg 412-415 Workbook; Practice; Re-teach; Enrichment Lesson 17.5. Enrichment pg. 442 Voyage Math Module 9 www.myskillstutor.com www.mmhmath.com www.docstoc.com (printable-Cartesian-plane-graph-paper)		

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	ARMT 8 AHSGE Standard VII Objective 1	5.8.B.1.a Classifying triangles as equilateral. 5.8.B.1.b. Classifying triangles as isosceles 5.8.B. 1.c. Classifying triangles as scalene	5.8.B.1.a. Saxon pp. 175-176 (lesson 36) McGraw/Hill Chapter 19. Workbook; Practice; Re-teach; Enrichment Lesson 19. Voyage Math Module 9 www.myskillstutor.com www.mmhmath.com www.schoolhousetech.com		
	ARMT 8	5.8.B.2.b. Identifying rotational symmetries of polygons.	5.8.B.2.b. Saxon pp 542-547 (lesson 105)		
	ARMT 11	5.11.1.c. Estimate area of irregular shapes using unit squares. 5.11.1.d. Estimate area of irregular shapes using grid paper.	5.11. a. McGraw/Hill pp 522-524, (lesson 22.4) reinforce vocabulary area unit, perimeter, formula. McGraw/Hill Lesson . pg. Workbook; Practice; Re-teach; Enrichment Lesson 1.4. www.myskillstutor.com www.mmhmath.com		

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5th Six Weeks					
	ARMT 12 AHSGE Standard IV Objective 1	5.12. Calculate the perimeter of rectangles from measured dimensions. 5.12.B.1. Determining surface areas of rectangular solids. 5.12.B.2.a. Determining the perimeter of triangles. 5.12.B.2.b. Determining the perimeter of a parallelograms.	Saxon 101 McGraw/Hill Lesson 21. 1 pg. 498-500. Teacher need to find more resources. Voyage Math 10 www.myskillstutor.com www.mmhmath.com www.math.about.com		
	ARMT 12 AHSGE Standard IV Objective 1	5.12.B.3.a. Determining how the perimeter of area is affected when either is held constant and the other is change. Example: identifying rectangles with dimensions of 3 x 4, 2 x 6, and 1 x 12 as all having an area of 12 square units but having different perimeters	Saxon Lesson 76, 101, 104. McGraw/Hill Lesson 21.3 pg. 506-507. McGraw/Hill Chapter 19. Workbook; Practice; Re-teach; Enrichment Lesson 19. Voyage Math Module 9 www.myskillstutor.com www.mmhmath.com www.schoolhousetech.com Teacher need to find more resources.		

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	ARMT 4 AHSGE Standard I Objective 2	5.4.B. 1.f Denominators Estimating sums and differences of fractions.	Saxon INV 2, 3, 41, 43, 59, 63, 81, 91, 101, 116 McGraw/Hill Lesson 11.3 pg 258-59. Lesson 11.4 260-261. Lesson 12.2. pg. 276-278. Voyager Math Module 5 & 6 www.myskillstutor.com www.mmhmath.com www.teachertube.com (video id 9995) www.edhelper.com		
	ARMT 4 AHSGE Standard I Objective 2	5.4.B.1.c. Solving word problems involving addition with uncommon denominators. 5.4.B 1.d. Solving word problems subtraction of fractions with uncommon.	McGraw/Hill Lesson 11.3 pg 258-59. Lesson 11.4 260-261. Lesson 12.2. pg. 276-278. www.myskillstutor.com www.mmhmath.com www.augusta.k12.va.us		

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6th Six Weeks					
	ARMT 4	5.4.B.2.a. Using least common multiple(LCM) to find common denominators	5.4.B.2.3. Saxon pp 580-598; vocabulary; least common multiple,		
	ARMT 4	5.4.B.3 Determining greatest common factor (GCF) to simplify fractions	McGraw/Hill 9.3, pg 29, 45, vocabulary common factor and greatest common factor		
	ARMT 4	5.4.B.5. Solving problems involving multiplication and division of fractions.	McGraw/Hill Lesson 13.3 & 13.3 pg. 304-309. McGraw Hill Lesson 14.5 pg. 332-333. Reinforce and additional practice Lesson 14.6. pg 334-336. McGraw/Hill Lesson 11.3 pg 258-59. Lesson 11.4 260-261. Lesson 12.2. pg. 276-278. Voyager Math Module 5 & 6 www.myskillstutor.com www.mmhmath.com www.teachertube.com (video id 9995) www.edhelper.com		

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	ARMT 13	5.13.Convert a larger unit of measurement to a smaller unit of measurement within the same customary or metric system. Examples: 4 cups = 32 fluid ounces, 2 meters = 200 centimeters, 2 miles = 10,560 feet	5.13.a Saxon 217, 333, 343, 352, 382, 397, 400, 407, 490, 569, 573. Reinforce vocabulary: convert; unit of measurement; system of measurement; cup, pint; quart; gallon; inches; feet; yard; miles; McGraw/Hill Lesson 1.4. pg. 10-13. Workbook; Practice; Re-teach; Enrichment Lesson 1.4. Voyage Math Module 10 www.myskillstutor.com www.mmhmath.com		

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	ARMT 14 AHSGE Standard VII Objective 5	5.14.1. Analyze data collected from a survey to determine results and factors that affect results. 5.14.B.a. Identifying the type of graph, including stem-and-leaf plot, line plot, bar graph, line graph, and Venn diagram, that most accurately represents given data. 5.14.B.b. Determining the measures of central tendency to analyze data Example: finding the mean, median, and mode for a set of data. 5.14.B.c. Determining the range of a given data set.	5.14.1 Saxon pp 246-7; 256-7; 417-421; 439-441; 472-475; 480; 486-7;503;615;617 Practice reinforce vocabulary: axis bar graphs; circle graph; histogram; line graph; origin; pictograph; mean; median; mode McGraw/Hill Chapter 26. Workbook; Practice; Re-teach; Enrichment Lesson 26. Voyage Math Module 8 www.myskillstutor.com www.mmhmath.com www.beacon.com		

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	ARMT 15 AHSGE Standard VII Objective 6	5.15 . Use fractions to represent the probability of events that are neither certain nor impossible. 5.15.B.1. Solving word problems involving probability. ***Example: Bob has a bag containing only 4 purple marbles, 6 black marbles, and 9 pink marbles. If his teacher selects one marble from the bag without looking, what is the probability that the marble is pink? Answer: The probability that the marble is*** pink is $\frac{9}{19}$. 5.15.B.2.b. Identifying the probability of an event that is impossible as 0.	McGraw/Hill Lesson 7.4 & 8.2 pg. 160-162, 178-179. Lesson 7.5. pg. 164-167, Making a Graph, Lesson 8.3. pp 180-181 vocabulary axis bar graph double-bar graph interval scale, leaf stem, stem and leaf, plot. Saxon; INV 5, 6, 8; Lesson 12, 93, 108 McGraw/Hill Chapter 26 Vocabulary: probability, event outcome, likely, unlikely, sample space, equally likely, certain, impossible more likely less likely, trial. McGraw/Hill Chapter 19. Workbook; Practice; Re-teach; Enrichment Lesson 19 Voyage Math Module 8 www.myskillstutor.com www.mmhmath.com www.beconlearningcenter.com		

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		5.1. b. Demonstrate concepts of number sense by ordering whole numbers through millions place. 5.1.B.2,a. Determining the place value of a digit in a whole number through the millions.	5.1.b. Saxon pp.8,9,16-17,239-9,264. Additional practice needed. Reinforce vocabulary; expanded notation; standard form; place value McGraw/Hill- Lesson 1.5. pg. 14-17; Workbook-Practice, Enrichment; Re-teach Lesson 1-5 -Voyager Math- Module 1 www.myskillstutor.com www.mmhmath.com		

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		5.1.d Demonstrate concepts of number sense by expanding whole numbers through millions place. 5.1.B. 2,a. Determining the place value of a digit in a whole number through the millions.	5.1.d. Saxon pp. 338A; 340,349, 350-51, 548A, 549, 551, 616, 323. Provide additional practice Reinforce vocabulary; expanded notation; standard form; place value. McGraw/Hill Lesson 2.1. pg. 24-26. Workbook; Practice; Re-teach; Enrichment Lesson 2.1. www.myskillstutor.com www.mmhmath.com www.augusta.k12.va.us		

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		5.1.g. Demonstrate number sense by rounding decimals to the thousandths place. 5.1. h. Demonstrate number sense by expanding decimals to the thousandths place. 5.1. B.2.b.Determining the place value of a digit in a decimal through the thousandths place 5.1. B.2.b.Determining the place value of a digit in a decimal through the thousandths place. 5.1. B.1.a. Relating percents to parts out of 100 using equivalent fractions.	5.1. b.2. Saxon pp. 332-334, 338-340,344-345, 548-550 (lesson 66,67,68, and 106) vocabulary: compare, less than,<, greater than, >, order, expand, expanded form; reinforce vocabulary, more practice pp. 651 (lesson 68); scattered; Lesson 30, 71, INV 2, 3 (percents 100) McGraw/Hill Lesson 27. pg. 632-37. Workbook; Practice; Re-teach; Enrichment Lesson 27. www.myskillstutor.com www.mmhmath.com www.augusta.k12.va.us		