

Lynchburg City Schools 2013-2014



GRADING PERIOD: 1st Nine Weeks				
SOL and Enabling Objectives	Time Frame	Teaching Resources		Assessments
	Suggested	Activities	Technology	
"Getting to Know You"- Community Building		IDI Folder	Rockingham Resources	
3.17 Bar Graphs: (Ongoing skill)			Suffolk STAR Resources	
Review prior knowledge (pictographs displaying the same data as the bar graph)		Vertical Articulation		
 a. Formulate questions to investigate. b. Design data investigations to answer formulated questions, limiting the number of categories for data collection to four. c. Collect data, using surveys, polls, questionnaires, scientific experiments, and observations. d. Organize data and construct a <u>bar graph</u> on grid paper representing 16 or fewer data points for no more than four categories. g. Label each axis on a <u>bar graph</u> and give the <u>bar graph</u> a title. Limit increments on the numerical axis to whole numbers representing multiples of 1, 2, 5, or 10. h. Read the information presented on a simple <u>bar graph</u> (Continued on the next page) 	5 days	Vocabulary Cards Activities Lessons Literature Text: Ch 3 pp.48-49 Text: Ch 3 pp.50 Text: Ch 15 pp.302-313 Text: Ch 16 pp.322-327; 330-331	HMC CountryCountdown/WWGraphing/A- F NumberGames/Arachnagraph/A-F Brain POP Jr Tally Charts and Bar Graphs	Assessments Exam View Pro Test Maker

Links: VDOE SOL Instructional Materials; Curriculum Framework; Enabling Objectives

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GRADING PERIOD: 1st Nine Weeks (continued)				
SOL and Enabling Objectives	Time Frame	Teaching	Resources	Assessments
	Suggested	Activities	Technology/Online	
 3.17 Bar Graphs (continued) i. Analyze and interpret information from <u>bar graphs</u>, with up to 30 data points and up to 8 categories, by writing at least one sentence. j. Describe the categories of data and the data as a whole. k. Identify parts of the data that have special characteristics (the greatest, the least, or the same) l. Select a correct interpretation of a graph from a set of where one is correct and the rest are incorrect. 	Part of previous 5 days		Rockingham Resources	
 3.11 Time: (ongoing skill) Review prior knowledge a. Tell time to the nearest minute, using analog and digital clocks. b. Match the times shown on analog and digital clocks to written times and to each other. 3.12 Equivalent Time Periods a. Identify equivalent relationships observed in a calendar, including the number of days in a given month, the number of days in a week, the number of days in a year, and the number of minutes in an hour and the number of hours in a day. 	5 days	Vertical Articulation Text: Ch 7 Time Lessons Time Activities Literature Calendar Lessons Calendar Activities	HMC Country Countdown/Clock/E-J Number Games/Think Tank/E BrainPOPJr Time to the Minute BrainPOPJr Time to the Quarter and Half Hour BrainPOPJr Time to the Hour BrainPOPJr- Calendar and Dates	Assessments Exam View Pro Test Maker Calendar Assessments

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GRADING PERIOD: 1st Nine Weeks (continued)				
SOL and Enabling Objectives	Time Frame	Teaching	Resources	Assessments
	Suggested	Activities	Technology/Online	
 3.1 Place Value: Review Prior Knowledge a. Investigate and identify the place and value for each digit in a six-digit numeral, using Base-10 manipulatives (e.g., Base-10 blocks). b. Use the patterns in the place value system to read and write numbers. c. Read six-digit numerals orally. d. Write six-digit numerals that are stated verbally or written in words. e. Round a given whole number, 9,999 or less, to the nearest ten, hundred, and thousand. f. Solve problems, using rounding of numbers, 9,999 or less, to the nearest ten, hundred, and thousand. g. Determine which of two whole numbers between 0 and 9,999 is greater. h. Determine which of two whole numbers between 0 and 9,999 is less. i. Compare two whole numbers between 0 and 9,999, using the symbols >, <, or =. j. Use the terms greater than, less than, and equal to when comparing two whole numbers. 	12 days	Vertical Articulation Place Value Lessons Place Value Activities Text: Ch 2 Literature Text: Ch 3	Rockingham Resources Suffolk STAR Resources HMC Number Games/Tiny's ThinkTank/A Fraction Action/Number Line/A BrainPOPJr Place Value BrainPOPJr Rounding HMC CountryCountdown/Harrison's/L-N Fraction Action/Number Line/B-C BrainPOPJr Comparing Numbers	Assessments Exam View Pro Test Maker

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GR	ADING PERIOD: 1st Nine Weeks (continued)				
	SOL and Enabling Objectives	Time Frame	Teaching	Resources	Assessments
		Suggested	Activities	Technology/Online	
3.	2 Inverse Relationships (addition and subtraction)		Vertical Articulation	Pockingham Pocourcos	Assessments
	a. Use the inverse relationships between		Text: Ch1	<u>Rockingham Resources</u>	
	sentences. For example, $5 + 3 = 8$ and $8 - 3 = $	3 days	Fact Family Lessons	Suffolk STAR Resources	Exam View Pro Test Maker
	b. Write three related basic fact sentences when given		Fact Family Activities	HMC	
2	one basic fact sentence for addition/subtraction.		Literature	CountryCountdown/CountCritters/G-U	
3.4	Single-step and multistep problems (ongoing)		Vertical Articulation		
a	an appropriate solution for practical addition and		venical Aniculation		Assessments
	subtraction problems.				Exam View Pro
b	. Determine whether to add or subtract in practical problem situations.		Text: Ch 4, 5		Test Maker
с	. Estimate the sum or difference of two whole numbers,		Problem Solving Lessons		
	each 9,999 or less when an exact answer is not required.		Problem Solving Activities	Number Games/Think Tank/B-C	
d	. Add or subtract two whole numbers, each 9,999 or less.	4 days	<u>Literature</u>		
e	. Solve practical problems involving the sum of two whole numbers, each 9,999 or less, with or without regrouping			Modeling Problems with Thinking Blocks	
f.	Solve practical problems involving the difference of two whole numbers, each 9,999 or less, with or without regrouping				
g	Solve single-step and multistep problems involving the sum or difference of two whole numbers, each 9,999 or less, with or without regrouping.				

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GRADING PERIOD: 1st Nine Weeks (continued)						
SOL and Enabling Objectives	Time Frame	Teaching	Teaching Resources			
	Suggested	Activities	Technology/Online			
3.19 Addition Patterns						
Review Prior Knowledge		Vertical Articulation	Rockingham Resources	Assessments		
 Recognize repeating and growing numeric patterns (e.g., skip counting, addition tables). 	4 days	Patterns Lessons	Suffolk STAR Resources	Exam View Pro		
 b. Describe repeating and growing numeric patterns formed using numbers, tables, and/or pictures, using the same or different forms. 		Patterns Activities Text: Ch 23	Video C Strategies for	Test Maker		
c. Extend repeating and growing patterns of numbers using concrete objects, numbers, tables, and/or pictures		Literature	Learning Basic Facts_ BrainPOPJr Basic Adding			
3.20 Properties for addition a. Investigate the identity property for addition (when the		Vertical Articulation Properties Lessons		Assessments		
number zero is added to another number or another number is added to the number zero, that number remains unchanged. Examples of the identity property for addition are $0 + 2 = 2; 5 + 0 = 5.$	4 days	4 days	4 days	Properties Activities	BrainPOP Commutative	Exam View Pro Test Maker
c. Recognize that the commutative property for addition is an order property. Changing the order of the addends does not change the sum $(5 + 4 = 9 \text{ and } 4 + 5 = 9)$.			Property Video Commutative			
 e. Write number sentences to represent equivalent mathematical relationships (e.g., 4 + 3 = 9 - 2). 			Property_			
f. Identify examples of the identity properties for addition.						
g. Identify examples of the commutative properties for addition						

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GRADING PERIOD: 1st Nine Weeks (continued				
SOL and Enabling Objectives	Time Frame	Teaching F	Resources	Assessments
	Suggested	Activities	Technology/Online	
Extra days for flexible time	2 days			
Enrichment and Remediation	3 days			Remediation Post Tests

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GRADING PERIOD: 2 nd Nine Weeks				
SOL and Enabling Objectives	Time Frame	Teaching	Resources	Assessments
	Suggested	Activities	Technology/Online	
3.17 Picture Graphs:		Vertical Articulation		Assessments
Review Prior Knowledge (pictographs with keys and solve problems using information in the graph)		Activities Lessons	Rockingham Resources	Exam View Pro Test Maker
 a. Formulate questions to investigate. b. Design data investigations to answer formulated questions, limiting the number of categories for data collection to four. c. Collect data, using surveys, polls, questionnaires, scientific experiments, and observations. h. Read the information presented on a picture graph i. Analyze and interpret information from picture graphs, with up to 30 data points and up to 8 categories, by writing at least one sentence. 	5 days	Text: Ch 3 pp.48-49 Text: Ch 3 pp.50 Text: Ch 15 pp.302-313 Text: Ch 16 pp.322-327; 330-331 Literature	Suffolk STAR Resources HMC CountryCountdown/WWGraphing/A-F NumberGames/Arachnagraph/A-F	
 j. Describe the categories of data and the data as a whole k. Identify parts of the data that have special characteristics, including categories with the greatest, the least, or the same l. Select a correct interpretation of a graph from a set of interpretations of the graph, where one is correct and the remaining are incorrect. 3.6 Model Multiplication through the 5s tables (begin) 	5 days	Vertical Articulation Lessons Activities Text: Ch 8,9	HMC CountryCountdown/Counting/V-Z Video CArray Model for Multiplication	Assessments Exam View Pro Test Maker
a. Model multiplication, using area, set, and number line models.				

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GRADING PERIOD: 2 nd Nine Weeks (continued)				
SOL and Enabling Objectives	Time Frame	Teaching	Resources	Assessments
	Suggested	Activities	Technology/Online	
 3.9 Metric Measurement- Review Prior Knowledge a. Estimate and use metric units to measure lengths of objects to the nearest centimeter, and meter. b. Determine the actual measure of length using metric units to measure objects to the nearest centimeter, and meter. c. Estimate and use metric units to measure liquid volume to the nearest liter. d. Determine the actual measure of liquid volume using metric units to measure to the nearest liter. e. Estimate and use metric units to measure the mass of objects to the nearest gram, and kilogram. f. Determine the actual measure of mass using metric units to measure the mass of objects to the nearest gram, and kilogram. g. Estimate and use metric units to measure area and 	10 days	Vertical Articulation Lessons Activities Text: Ch 18 Literature	Rockingham Resources Suffolk STAR Resources HMC Ice Station/Linear Lab/H NumberGames/ThinkTank/P BrainPOPJr Milli-,Centi-,and Kilo- meters BrainPOPJr Grams and Kilograms	Assessments Exam View Pro Test Maker
 perimeter. h. Determine the actual measure of area or perimeter using metric units. 3.13 Celsius Temperature a Read temperature to the nearest degree from real and pictorial images of Celsius thermometers 		<u>Lessons</u> Activities	BrainPOPJR Temperature	Assessments Exam View Pro Test Maker

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GRADING PERIOD: 2 nd Nine Weeks (continued)				
SOL and Enabling Objectives	Time Frame	Teaching	Resources	Assessments
	Suggested	Activities	Technology/Online	
3.5 Multiplication Facts through 12s (ongoing)	\square	Vertical Articulation		Assessments
a. Recall and state the multiplication facts through the twelves table.		Lessons Activities	Rockingham Resources	Exam View Pro Test Maker
b. Recall and write the multiplication facts through the twelves table.		Text: Ch 10, 11, 29	Suffolk STAR Resources	
3.6 Multiplication		Literature	НМС	
a. Model multiplication, using area, set, and number line models.		Vertical Articulation	Number Games/UpUpArray/A-C Multiplication Applet	Assessments
c. Solve multiplication problems, using the multiplication algorithm, where one factor is 99 or less and the second factor is 5 or less.		Lessons Activities		Test Maker
d. Create and solve word problems involving multiplication, where one factor is 99 or less and the second factor is 5 or less	days	Vertical Articulation	HMC Fraction Action/ Number Line/D	
3.20 Multiplication Properties			BrainPOPJr-Arrays	Assessments
 b. Investigate the identity property for multiplication d. Recognize that the commutative property for multiplication is an order property. 		Activities Text: Ch 11 pp.220-221 Vertical Articulation	BrainPOPJr- Multiply by 0 and 1 BrainPOPJr-Repeated Addition	Exam View Pro Test Maker
f. Identify examples of the identity and commutative properties for multiplication		Lessons Activities	HMC	Assessments
3.19 Multiplication Patterns		Text: Ch 9 pp. 180-181	Numberopolis/CarnivalStories/S	Exam View Pro
a. Recognize, describe and extend multiplication patterns using numbers and tables.	V	Ch 11 pp. 216-217 Literature	(ror runderopons sign-in as a 2nd grade guest)	Test Maker

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SOL and Enabling Objectives	Time Frame	Teaching F	Teaching Resources		
	Suggested	Activities	Technology/Online		
 3.11 Elapsed Time: (ongoing skill) c. When given the beginning time and ending time, determine the elapsed time in one-hour increments within a 12-hour period (times do not cross between a.m. and p.m.). Identify the ending time when given the beginning and elapsed time. d. Solve practical problems in relation to time that has elapsed. 	3 days	_Vertical Articulation Lessons Activities Text: Ch 7 Literature	Rockingham Resources	Assessments Exam View Pro Test Maker	
Extra days for Flexible Time					
Enrichment and Remediation	5 days			Remediation Post Tests	

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Time Frame	Teaching	Resources	Assessments
Suggested	Activities	Technology/Online	
	Vertical Articulation Activities	Rockingham Resources	Assessments
4 days	Lessons	Suffolk STAR Resources	Exam View Pro
	Text: Ch15, 16 (parts)		
	Literature	HMC MegaMath	
		NumberGames/Arachnagraph/E-F	
	Time Frame Suggested 4 days	Time FrameTeaching ISuggestedActivitiesSuggestedVertical Articulation Activities4 daysLessons Text: Ch15, 16 (parts) Literature	Time Frame Teaching Resources Suggested Activities Vertical Articulation Activities Rockingham Resources 4 days Lessons Text: Ch15, 16 (parts) Suffolk STAR Resources HMC MegaMath NumberGames/Arachnagraph/E-F

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GRADING PERIOD: 3 rd Nine Weeks (continued)					
SOL and Enabling Objectives	Time Frame	Teaching Resources		Assessments	
	Suggested	Activities	Technology/Online		
 3.9 Measurement (U.S. Customary) a. Estimate and use U.S. Customary units to measure lengths of objects to the nearest ¹/₂ of an inch, inch, foot, yard. b. Determine the actual measure of length using U.S. Customary units to measure objects to the nearest ¹/₂ of an inch, foot, yard. c. Estimate and use U.S. Customary units to measure liquid volume to the nearest cup, pint, quart, gallon, d. Determine the actual measure of liquid volume using U.S. Customary units to measure to the nearest cup, pint, quart, and gallon. e. Estimate and use U.S. Customary units to measure the weight/mass of objects to the nearest ounce, pound. f. Determine the actual measure of weight/mass using U.S. Customary units to measure the weight/mass of objects to the nearest ounce, and use U.S. Customary units to measure the weight/mass of objects to the nearest ounce, pound. g. Estimate and use U.S. Customary units to measure area and perimeter. h. Determine the actual measure of area or perimeter using U.S. Customary units. 	9 days	Vertical Articulation Lessons Activities Text: Ch 17 Literature	Rockingham ResourcesSuffolk STAR ResourcesHMCIce Station/Linear Lab/AShapes Ahoy/Measure/F-J(For Shapes Ahoy sign-in as a 2nd grade guest)BrainPOPJr-Inches and FeetBrainPOPJr-Cups, Pints, Quarts, GallonsBrainPOPJr-Ounces, Pounds, Tons	Assessments Exam View Pro Test Maker	
3.13 Temperatureb. Read temperature to the nearest degree from real Fahrenheit thermometers and from pictures of them.		Text: Ch 18.5 Lessons Activities	BrainPOPJr-Perimeter BrainPOPJr-Area	Exam View Pro Test Maker	

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GRADING PERIOD: 3 rd Nine Weeks (continued)				
SOL and Enabling Objectives	Time Frame	Teaching Resources		Assessments
	Suggested	Activities	Technology/Online	
 3.10 Perimeter and Area a Measure each side of a variety of polygons and add the measures of the sides to determine the perimeter of each polygon. b. Determine the area of a given surface by estimating and then counting the number of square units needed to cover the surface. 	2 days	Vertical Articulation Lessons Activities Text: Ch 22.1-22.2	HMC Shapes Ahoy/ShipShape/W, X (For Shapes Ahoy sign-in as a 2nd grade guest) BrainPOPJr-Perimeter BrainPOPJr-Area	Assessments Exam View Pro Test Maker
 3.6 Model Division b. Model division, using area, set, and number line models. 2.0 Inverse Relationships, Multiplication & Division 		Vertical Articulation Lessons Activities Text: Ch 12, 13, 14	Rockingham Resources	Assessments Exam View Pro Test Maker
 a. Use the inverse relationships between multiplication/division to solve related basic fact sentences. For example, 4 × 3 = 12 and 12 ÷ 4 = b. Write three related basic fact sentences when given one basic fact sentence for multiplication/division. For example, given 3 × 2 = 6, solve the related facts × 3 = 6, 6 ÷ 3 =, and 6 ÷ = 3. 	days	Literature Vertical Articulation <u>Fact Family Lessons</u> <u>Fact Family Activities</u> Text: Ch 12 pp.246-249 Ch 14 pp. 280-281 Literature	BrainPOPJr- Repeated Subtraction BrainPOPJr-Arrays	Assessments Exam View Pro Test Maker

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GRADING PERIOD: 3 rd Nine Weeks (continued)					
SOL and Enabling Objectives	Time Frame	Teaching Resources		Assessments	
	Suggested	Activities	Technology/Online		
 3.8 Money: Review Prior Knowledge a. Count the value of collections of coins and bills up to \$5.00. b. Compare the values of two sets of coins or bills, up to \$5.00, using the terms greater than, less than, and equal to. c. Make change from \$5.00 or less. Identify the group of coins and bills needed to make change. Extra Days for Flexible Time 	5 days 1 days	Vertical Articulation Lessons Activities Text: Ch 6 Literature	Rockingham Resources Suffolk STAR Resources HMC Numberopolis/Lulu'sLunch/Q-W (For Numberopolis sign-in as a 2nd grade guest) BrainPoPJr- Counting Coins	Assessments Exam View Pro Test Maker	
Enrichment and Remediation	5 days			Remediation Post Tests	

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SOL and Enabling Objectives	Time Frame	Teaching Resources		Assessments
	Suggested	Activities	Technology/Online	
 3.18 Probability: Review Prior Knowledge a. Define probability as the chance that an event will happen. b. List all possible outcomes for a given situation (e.g., heads and tails are the two possible outcomes of flipping a coin). Identify all possible combinations of a 2x3 array of objects. c. Identify the degree of likelihood of an outcome occurring using terms such as <i>impossible</i>, <i>unlikely</i>, <i>as likely as</i>, <i>equally likely</i>, <i>likely</i>, and <i>certain</i>. 	5 days	Vertical Articulation Lessons Activities Text: Ch 24 Literature	Rockingham Resources Suffolk STAR Resources HMC Fraction Action/Last Chance/A-C BrainPOP Jr- Basic Probability	Assessments Exam View Pro Test Maker
 3.15 Points, lines, line segments, rays and angles a. Identify examples of points, line segments, rays, angles, and lines. b. Draw representations of points, line segments, rays, angles, and lines, using a ruler or straightedge. 	Total geometry about 10 days	Lessons Activities Text: Ch 19 Literature	HMC Ice Station/Polar Plane/A-B	Assessments Exam View Pro Test Maker

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SOL and Enabling Objectives	Time Frame	Teaching	Assessments	
	Suggested	Activities	Technology/Online	
 3.14 Plane and Solid Geometric Figures a. Identify models and pictures of plane geometric figures (circle, square, rectangle, and triangle) and solid geometric figures (cube, rectangular prism, square pyramid, sphere, cone, and cylinder) by name. b. Identify and describe plane geometric figures by counting the number of sides and angles. c. Identify and describe solid geometric figures by counting the number of angles, vertices, edges, and by the number and shape of faces. d. Compare and contrast characteristics of plane and solid geometric figures (e.g., circle/sphere, square/cube, triangle/square pyramid, and rectangle/rectangular prism), by counting the number of sides, and the number and shape of faces. e. Compare and contrast characteristics of solid geometric figures (i.e., cube, rectangular prism, square pyramid, sphere, cylinder, and cone) to similar objects in everyday life (e.g., a party hat is like a cone). f. Identify characteristics of solid geometric figures (cylinder, cone, cube, square pyramid, and rectangular prism). 	Total Geometry about 10 days Including with the next page of SOLs	Vertical Articulation Lessons Activities Text: Ch 19 pp. 390-391; 396-399 Ch 21 pp. 424-429 Literature	Rockingham Resources Suffolk STAR Resources HMC Ice Station/Frozen Solids/A-H Ice Station/Polar Planes/A-B Shapes Ahoy/UnderSea3D/A-G,I (For Shapes Ahoy sign-in as a 2nd grade guest) BrainPOPJr- Plane Figures	Assessments Exam View Pro Test Maker
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GRADING PERIOD: 4th Nine Weeks (continued) Links: VDOE SOL Instructional Materials; Curriculum Framework; Enabling Objectives HMC refers to the Harcourt Math Center's Mega Math; A Rev. 5-29-13 plw 17



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SOL and Enabling Objectives	Time Frame	Teaching Resources		Assessments
	Suggested	Activities	Technology/Online	
 3.19 Geometric Patterns a. Recognize repeating and growing geometric patterns b. Describe repeating and growing geometric patterns c. Extend repeating and growing patterns of figures using concrete objects, and/or pictures 3.16 Congruence a. Identify examples of congruent and noncongruent figures. Verify their congruence by laying one on top of the other using drawings or models. b. Determine and explain why plane figures are congruent or noncongruent, using tracing procedures. 		Vertical Articulation Lessons Activities Text: Ch 23 pp. 470-473 Ch 23 pp. 474-477 Literature Vertical Articulation Lessons Activities Text: Ch 20	Rockingham Resources Suffolk STAR Resources HMC Ice Station/Polar Plane/A-B HMC Ice Station/Polar Plane/H-K Video Angles	Assessments Exam View Pro Test Maker Assessments Exam View Pro Test Maker
Review for SOL Test	28 days left in the 9 weeks			Remediation Post Tests

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