St. Peter School

### Quincy, Illinois

St. Peter	y map is based on the 2017-2	018 school year Informatic	Grade 3		onthe are guidelines and	items may be done at differ	Quincy, Illinois
Month	Essential Questions	Content	Skills	ycai. W	Assessment	Resources	Technology
3.OA.A 3.OA.B 3.OA.C 3.OA.D Number an 3.NBT.A Number an 3.NF.A 3.MD.A 3.MD.A 3.MD.B 3.MD.C 3.MD.D 4 Geometry	Common Core Standa and Algebraic Thinking Represent and solve problem Understand properties of mu multiplication and division. Multiply and divide within 1 Solve problems involving th patterns in arithmetic. d Operations in Base Ten Use place value understandin digit arithmetic. d Operations—Fractions Develop understanding of fra that and Data Solve problems involving ma liquid volumes, and masses a Represent and interpret data. Geometric measurement: und multiplication and to additio Geometric measurement: rec and distinguish between line Reason with shapes and their	ltiplication and the relations 00. e four operations and identif ng and properties of operation actions as numbers. easurement and estimation of of objects. derstand concepts of area and n. ognize perimeter as an attrik ar and area measures.	und division. ship between fy and explain ons to perform multi- of intervals of time, d relate area to	MP.1 MP.2 MP.3 MP.4 MP.5 MP.6 MP.7 MP.8 *Pract	Make sense of problem Reason abstractly and of Construct viable argum Model with mathematii Use appropriate tools s Attend to precision. Look for and make use	ents and critique the reason cs. trategically. of structure. egularity in repeated reason	hem. ing of others.
AugSept.	Place Value How can numbers be	Place Value -Place value through	Place Value -Read, write, and	1	Place Value McGraw-Hill <i>My Math</i>	Place Value McGraw-Hill <i>My Math</i>	Place Value -Elmo
Standards: 3.NBT.A.1	expressed, ordered and compared?	thousands -Compare numbers -Order numbers -Round to the nearest ten -Round to the nearest hundred -Problem solving	identify place value whole numbers throu thousands -Use place value to compare numbers -Use number line an place value to order numbers through thousands	ugh ( - d	Grade 3, Volume 1 2016) student book assessment masters	Grade 3, Volume 1 (2016) -student book -assessment masters -Worksheets (teacher created) -Base-ten blocks	-SMART Board

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Diary Month	map is based on the 2017-2 Essential Questions	018 school year. Informatio	n may change year to year. Skills	Months are guidelines and Assessment	items may be done at differ Resources	ent times of the year. <b>Technology</b>	
Standards: 3.NBT.A.2 3.OA.D.9	Addition How can place value help to add larger numbers?	Addition -Addition Properties (Associative, Commutative, Identity) -Patterns in the addition table -Addition patterns -Estimation of sums -Add three and four-digit numbers -Problem solving	-Round numbers to the nearest ten -Round numbers to the nearest hundred -Use the four-step plan to solve problems Addition -Use the addition properties to add whole numbers -Identify patterns in the addition table -Use place value to identify addition patterns -Estimate sums using rounding -Add three and four-digit numbers with regrouping -Use the four-step plan to solve problems	Addition McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters	Addition McGraw-Hill <i>My Math</i> Grade 3, Volume 1 (2016) -student book -assessment masters -Worksheets (teacher created)	Addition -Elmo -SMART Board	
Oct. Standards: 3.NBT.A.2	Subtraction How are the operations of subtraction and addition related?	Subtraction -Estimation of differences -Subtraction with regrouping -Subtraction of three and four-digit numbers -Subtraction across zeros -Problem Solving: Estimate or Exact Answer	Subtraction -Estimate differences using rounding to the nearest ten or hundred -Use regrouping to subtract three and four digit numbers -Use regrouping to subtract across zeros -Determine whether an estimate or an exact answer is needed to solve a problem	Subtraction McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters	Subtraction McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters -Worksheets (teacher created)	Subtraction -Elmo -SMART Board	
<b>Standards:</b> 3.OA.A.1 3.OA.A.3	Understand Multiplication What does multiplication	Understand Multiplication -Hands on model	Understand Multiplication -Use models to explore	Understand Multiplication McGraw-Hill <i>My Math</i>	Understand Multiplication McGraw-Hill <i>My Math</i>	<b>Understand</b> <b>Multiplication</b> -Elmo	

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### Quincy, Illinois

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Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
	mean?	multiplication -Multiplication as repeated addition -Arrays and Multiplication -Commutative Property -Problem-Solving: Make a Table -Multiplication to find combinations	the meaning of multiplication -Relate multiplication and addition -Use arrays to explore and model multiplication -Use the make a table strategy to solve problems -Use multiplication to find the total number of combinations that can be made when given two groups of objects	Grade 3, Volume 1 (2016) -student book -assessment masters	Grade 3, Volume 1 (2016) -student book -assessment masters -Worksheets (teacher created)	-SMART Board
Nov. Standards: 3.OA.A.2 3.OA.C.7	Understand Division What does division mean?	Understand Division -Hands on model division -Division as equal sharing -Division and subtraction relationship -Relate division and multiplication -Inverse operations -Problem-solving	Understand Division -Explore two meanings of division -Model division as equal sharing -Use models to relate division and subtraction -Explore how division and multiplication are related -Divide using related multiplication facts -Use models to solve problems	Understand Division McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters	Understand Division McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters -Worksheets (teacher created)	Understand Division -Elmo -SMART Board
Dec. Standards: 3.OA.D.9 3.OA.A.3 3.OA.A.4	Multiplication and Division Patterns What is the importance of patterns in learning multiplication and division?	Multiplication and Division Patterns -Patterns in the multiplication table -Multiply by 2 -Divide by 2	Multiplication and Division Patterns -Identify and explain patterns in the multiplication table -Use arrays and drawings to multiply by 2 -Use models and related multiplication facts to	Multiplication and Division Patterns McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters	Multiplication and Division Patterns McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters -Worksheets (teacher created)	Multiplication and Division Patterns -Elmo -SMART Board

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Grade 3 Math Diary map is based on the 2017-2018 school year. Information may change year to year. Months are guidelines and items may be done at different times of the year.									
Month	<b>Essential Questions</b>	Content	Skills	Assessment	Resources	Technology			
			Julia ha ba Q						
Jan. Standards: 3.OA.D.9 3.OA.C.7 3.NBT.A.3	Multiplication and Division Patterns What is the importance of patterns in learning multiplication and division?	Multiplication and Division Patterns -Multiply by 5 -Divide by 5 -Problem-solving: Look for a Pattern -Multiply by 10 -Multiples of 10 -Divide by 10	divide by 2 <b>Multiplication and</b> <b>Division Patterns</b> -Use different strategies, including patterns, to multiply by 5 -Use different strategies, including related multiplication facts, to divide by 5 -Solve problems by looking for a pattern -Use different strategies, including patterns, to multiply by 10 -Use basic facts and patterns to multiply a number by a multiply of 10 -Use different strategies, including related multiplication facts, to divide by 10	Multiplication and Division Patterns McGraw-Hill <i>My Math</i> Grade 3, Volume 1 (2016) -student book -assessment masters -Multiplication fact quizzes (teacher created)	Multiplication and Division Patterns McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters -Worksheets (teacher created)	Multiplication and Division Patterns -Elmo -SMART Board			
Feb. Standards: 3.OA.A.3 3.OA.A.4 3.OA.D.9 3.OA.A.2	Multiplication and Division What strategies can be used to learn multiplication and division facts?	Multiplication and Division -Multiply by 3 -Divide by 3 -Double a known fact -Multiply by 4 -Divide by 4 -Problem Solving Investigation: Extra or Missing Information -Multiply by 0 and 1 -Divide with 0 and 1	Multiplication and Division -Use different strategies such as arrays, equal groups, and properties to multiply by 3 -Use different strategies, including related multiplication facts, to divide by 3 -Explore how to double a known fact in order to multiply -Double a known fact to multiply by 4	Multiplication and Division McGraw-Hill <i>My Math</i> Grade 3, Volume 1 (2016) -student book -assessment masters -Multiplication fact quizzes (teacher created)	Multiplication and Division McGraw-Hill <i>My Math</i> Grade 3, Volume 1 (2016) -student book -assessment masters -Worksheets (teacher created)	Multiplication and Division -Elmo -SMART Board -iPad -Variety of math apps			

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Month	Essential Questions	Content	on may change year to year. Skills	Assessment	Resources	Technology	]
<b>Standards:</b> 3.OA.A.3 3.OA.D.9 3.OA.C.7	Apply Multiplication and Division How can multiplication and division facts with smaller numbers be applied to larger numbers?	<b>Apply Multiplication</b> <b>and Division</b> -Multiply by 6 -Multiply by 7 -Divide by 6 and 7	Skills -Use different strategies, including related multiplication facts, to divide by 4 -Solve a problem by identifying extra or missing information -Use different strategies such as equal groups, patterns, and properties to multiply by 0 and 1 -Use division rules to divide with 0 and 1 Apply Multiplication and Division -Use different strategies, including doubling a known fact, to multiply by 6 -Use different strategies	Assessment Apply Multiplication and Division McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters	Apply Multiplication         and Division         McGraw-Hill My Math         Grade 3, Volume 1         (2016)         -sstudent book         -assessment masters	Apply Multiplication and Division         -Elmo         -SMART Board         -iPad         -Variety of math apps	Commented [PH1]:
March	Apply Multiplication and Division	Apply Multiplication and Division	- Use different strategies such as properties, arrays, and decomposing factors to multiply by 7 - Use different strategies, including arrays and repeated subtraction, to divide by 6 and 7 Apply Multiplication and Division	-assessment masters -Multiplication fact quizzes (teacher created) Apply Multiplication and Division	-assessment masters -Worksheets (teacher created) Apply Multiplication and Division	Apply Multiplication and Division	
<b>Standards:</b> 3.OA.D.9 3.OA.A.3	How can multiplication and division facts with smaller numbers be applied to larger numbers?	-Multiply by 8 -Multiply by 9 -Divide by 8 and 9 -Area of rectangles	-Use different strategies, such as arrays, drawings, and known facts to multiply by 8 -Use different strategies, such as properties, known facts, or patterns, to multiply by 9	McGraw-Hill <i>My Math</i> Grade 3, Volume 1 (2016) -student book -assessment masters -Multiplication fact quizzes (teacher created)	McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters -Worksheets (teacher created)	-Elmo -SMART Board -iPad -Variety of math apps	

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Diary Month	map is based on the 2017-2 Essential Questions	018 school year. Informatio	on may change year to year. Skills	Months are guidelines and Assessment	items may be done at differ Resources	ent times of the year. Technology		
April Standards: 3.OA.A.1 3.OA.A.2	Apply Multiplication and Division How can multiplication and division facts with smaller numbers be applied to larger numbers?	Apply Multiplication and Division -Problem-Solving Investigation: Make an Organized List -Multiply by 11 and 12 -Divide by 11 and 12	-Use different strategies, such as equal groups, repeated subtraction, and related multiplication facts, to divide by 8 and 9 -Understand what area represents <b>Apply Multiplication and Division</b> -Make an organized list to solve problems -Use different strategies, such as patterns, models, and arrays, to multiply by 11 and 12 -Use different strategies, such as equal groups, repeated subtraction, and related facts, to divide by 11 and 12	Apply Multiplication and Division McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters	Apply Multiplication and Division McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters -Worksheets (teacher created)	Apply Multiplication and Division -Elmo -SMART Board -iPad -Variety of math apps		
Standards: 3.OA.B.5 3.OA.D.8	Properties and Equations How are properties and equations used to group numbers?	Properties and Equations -Hands on: Take Apart to Multiply -The Distributive Property -Hands on: Multiply Three Factors -The Associative Property -Write Expressions -Evaluate Expressions -Write Equations -Solve Two-Step Word Problems -Problem-Solving	Properties and Equations -Explore how to take apart factors to multiply -Apply the Distributive Property of Multiplication to find products -Explore how to find the product of three factors -Apply the Associative Property of Multiplication to find products -Write expressions using the four operations	Properties and Equations McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters	Properties and Equations McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters	Properties and Equations -Elmo -SMART Board -iPad -Variety of math apps		

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Diary Month	map is based on the 2017-2 Essential Questions	018 school year. Informatic	on may change year to year. Skills	Months are guidelines and Assessment	items may be done at differ Resources	ent times of the year. <b>Technology</b>	
WIOIIII	Essential Questions	Content	SKIIIS	Assessment	Resources	rechnology	
		Investigation: Use Logical Reasoning	-Write then find the value expressions -Represent one-and two- step word problems using equations with a variable -Represent and solve two-step word problems using equations with a variable -Use logical reasoning to solve problems				
May Standards: 3.NF.A.1 3.NF.A.2B 3.NF.A.3D 3.NF.A.3C 3.NF.A.3D	Fractions How can fractions be used to represent numbers and their parts?	Fractions -Unit Fractions -Part of a Whole -Part of a Set -Problem-Solving Investigation: Draw a Diagram -Hands on: Fractions on a Number Line -Equivalent Fractions -Fractions as one whole -Compare Fractions	Fractions -Explore and model unit fractions -Read and write fractions that name part of a whole -Use models to represent fractions that name part of a set -Draw a diagram to solve problems -Represent fractions on a number line -Use models to find equivalent fractions -Express whole numbers as fractions and recognize fractions equivalent to whole numbers -Use models to compare 2 fractions and record the results	Fractions McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters	Fractions McGraw-Hill My Math Grade 3, Volume 1 (2016) -student book -assessment masters	Fractions -Elmo -SMART Board -iPad -Variety of math apps	

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