Quincy, Illinois

Diary n	nap is based on the 2017-20	18 school year. Infor	rmation may change year to yea	 Months are guidelines and 	items may be done at differ	rent times of the year.

Month	Essential	Content	Skills		Assessment	Resources	Technology
	Questions						
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	Common Core Standa	rds for Mathematical Cor	itent			Standards for Mathematic	
	and Algebraic Thinking			MP.1		ns and persevere in solving	them.
4.OA.A	Use the four operations wit	h whole numbers to solve p	roblems.	MP.2			
4.OA.B	Gain familiarity with factor			MP.3		nents and critique the reason	ning of others.
4.OA.C	Generate and analyze patter	rns.		MP.4			
				MP.5	11 1	trategically.	
	d Operations in Base Ten		1 1	MP.6	1		
	Generalize place value under			MP.7			•
4.NBT.B multi-	Use place value understand	ing and properties of operat	ions to perform	MP.8	Look for and express r	egularity in repeated reason	ling.
illulti-	digit arithmetic.			*Prac	ctice standards are ongoing	g all year.	
Number an	d Operations—Fractions						
4.NF.A	Extend understanding of fra	action equivalence and orde	ring.				
4.NF.B	Build fractions from unit fr		ending previous				
	understandings of operation						
4.NF.C	Understand decimal notation	on for fractions and compare	e decimal fractions.				
	ent and Data						
4.MD.A	Solve problems involving i from a larger unit to a sma	measurement and conversion ller unit.	n of measurements				
4.MD.B	Represent and interpret dat						
4.MD.C	Geometric measurement: u	nderstand concepts of angle	and measure angles.				
Geometry							
4.G.A	Draw and identify lines and Their lines and angles.	l angles and classify shapes	by properties of				
Ongoing	ALEKS	ALEKS	ALEKS		ALEKS		ALEKS
	How are math skills	-Grade level math topics	-Apply math skills to		-Mastery of		-ALEKS program
Standards:	practiced and applied?	and prerequisites	solve problems that a		individualized topics		-iPads
All			individualized based	on			
			level of readiness				
AugSept.	Place Value	Place Value	Place Value		Place Value	Place Value	Place Value
a	How does place value	-Place value	-Identify the place va		-McGraw-Hill My Math	-McGraw-Hill My Math	-McGraw-Hill My Mat
Standards:	1 1	-Multi-digit numbers	of digits in multi-digi		Grade 4 assessments	Grade 4 (2016)	Grade 4 online textboo
4.NBT.A.1	of numbers?	-Comparing numbers	numbers		(2016)		(2016)
4.NBT.A.2		-Ordering numbers					-Elmo

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Month	Essential	Content	Skills	Assessment	Resources	Technology
	Questions					
4.NBT.A.3 4.NBT.B.4 4.OA.A.3 4.OA.C.5		-Rounding -Four-step plan	-Read and write multi- digit whole numbers -Compare numbers using a number line and a place value chart -Order numbers by using a place value chart and comparing the digit values -Estimate numbers by rounding -Use the four-step plan to solve problems			
Standards: 4.NBT.A.3 4.NBT.B.4 4.OA.A.3 4.OA.C.5	Add and Subtract Whole Numbers What strategies can be used to add or subtract?	Add and Subtract Whole Numbers -Addition properties and subtraction rules -Addition and subtraction patterns -Estimating sums and differences -Adding whole numbers -Subtracting whole numbers -Subtracting across zeros -Solving multi-step word problems	Add and Subtract Whole Numbers -Use addition properties and subtraction rules to add and subtract -Use patterns to solve addition and subtraction problems -Estimate sums and differences of multi- digit numbers -Add multi-digit whole numbers -Subtract multi-digit whole numbers -Subtract multi-digit numbers, when some digits are zeros -Solve multi-step word problems using addition and subtraction	Add and Subtract Whole Numbers -McGraw-Hill <i>My Math</i> Grade 4 assessments (2016)	Add and Subtract Whole Numbers -McGraw-Hill <i>My Math</i> Grade 4 (2016)	Add and Subtract Whole Numbers -McGraw-Hill <i>My Math</i> Grade 4 online textbook (2016) -Elmo

Month	Essential	018 school year. Information Content	Skills	Assessment	Resources	Technology
MOIITI		Content	SKIIIS	Assessment	Resources	rechnology
	Questions					
Oct.	Understanding	Understanding	Understanding	Understanding	Understanding	Understanding
001.	Multiplication and	Multiplication and	Multiplication and	Multiplication and	Multiplication and	Multiplication and
Standards:	Division	Division	Division	Division	Division	Division
4.NBT.B.5	How are multiplication	-Multiplication and	-Relate multiplication	-McGraw-Hill My Math	-McGraw-Hill My Math	-McGraw-Hill My Math
4.NBT.B.6	and division related?	division	and division	Grade 4 assessments	Grade 4 (2016)	Grade 4 online textbook
4.0A.A.1	and division related?	-Division and	-Relate division and	(2016)	Grade 4 (2010)	(2016)
4.0A.A.2		subtraction	subtraction	(2010)		-Elmo
4.OA.B.4		-Comparing groups	-Recognize the			Lind
1.071.D.1		when multiplying	comparison of two			
		-Comparing to solve	groups as another			
		problems	strategy to use when			
		-Multiplication	multiplying			
		properties and division	-Use comparison to			
		rules	solve problems			
		-Problem Solving: The	-Use multiplication			
		Associative Property	properties and division			
		-Factors and multiples	rules			
		-Reasonable answers	-Use the Associative			
			Property of			
			Multiplication to solve			
			problems			
			-Find factors and			
			multiples of whole			
			numbers			
			-Check answers for			
Nov.	Multiply with One-	Multiply with One-	reasonableness Multiply with One-	Multiply with One-	Multiply with One-	Multiply with One-
1107.	Digit Numbers	Digit Numbers	Digit Numbers	Digit Numbers	Digit Numbers	Digit Numbers
Standards:	What strategies can be	-Multiplying multiples	-Multiply multiples of	-McGraw-Hill My Math	-McGraw-Hill My Math	-McGraw-Hill My Math
4.NBT.A.1	used to multiply with	of 10, 100, and 1,000	10, 100, and 1,000 using	Grade 4 assessments	Grade 4 (2016)	Grade 4 online textbook
4.NBT.A.3	one-digit numbers?	-Estimated products	basic facts and patterns	(2016)	51440 1 (2010)	(2016)
4.NBT.B.5	angle manne erb.	-Multiplication models	-Estimate products by	(=)		-Elmo
		-Area models and partial	rounding			
		products	-Explore multiplication			
		-Multiplication of a two-	using models			
		digit number by a one-	C			
		digit number				

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	Questions					
			-Explore multiplication			
			using area models and			
			partial products			
			-Multiply a two-digit			
			number by a one-digit			
Dec.	Multiply with One-	Multiply with One-	number Multiply with One-	Multiply with One-	Multiply with One-	Multiply with One-
Dec.	Digit Numbers	Digit Numbers	Digit Numbers	Digit Numbers	Digit Numbers	Digit Numbers
Standards:	What strategies can be	-Models for regrouping	-Explore multiplication	-McGraw-Hill My Math	-McGraw-Hill My Math	-McGraw-Hill My Math
4.NBT.A.1	used to multiply with	-The Distributive	with regrouping using	Grade 4 assessments	Grade 4 (2016)	Grade 4 online textbook
4.NBT.A.3	one-digit numbers?	Property of	models	(2016)	Glade 4 (2010)	(2016)
4.NBT.B.5	one-aight numbers?	Multiplication	-Use the Distributive	(2010)		-Elmo
1.1(D1.D.0		multiplication	Property to make			Linio
		Multiplication:	multiplication easier			
		-two-digit by a one-digit	-Multiply a two-digit			
		number with regrouping	number by a one-digit			
		-multi-digit number by a	number with regrouping			
		one-digit number	-Multiply a multi-digit			
		-multi-digit number with	number by a one-digit			
		zeros by a one-digit	number			
		number	-Determine if a problem			
			needs and estimate or an			
		-Estimate or Exact	exact answer			
		Products	-Multiply multi-digit			
			numbers with zeros by a			
			one-digit number			
Jan.	Multiply with Two-	Multiply with Two-	Multiply with Two-	Multiply with Two-	Multiply with Two-	Multiply with
Stor douder	Digit Numbers	Digit Numbers	Digit Numbers	Digit Numbers	Digit Numbers	Two-Digit Numbers
Standards: 4.OA.A.3	What strategies can be used to multiply with	-Multiplication of a multi-digit number by a	-Multiply a multi-digit number by a one-digit	-McGraw-Hill <i>My Math</i> Grade 4 assessments	-McGraw-Hill <i>My Math</i> Grade 4 (2016)	-McGraw-Hill <i>My Math</i> Grade 4 online textbook
4.0A.A.3 4.NBT.A.3	two-digit numbers?	one-digit number	number by a one-digit number	(2016)	Grade 4 (2010)	(2016)
4.NBT.B.5	two-digit numbers?	-Estimate or Exact	-Determine if a problem	(2010)		-Elmo
т.нд1.д.3		Products	needs an estimate or an			
		-Multiplication of a	exact answer			
		multi-digit number with	-Multiply a multi-digit			
		zeros by a one-digit	number with zeros by a			
		number	one-digit number			

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	Questions					
Feb.	Divide by a One-Digit Number	Divide by a One-Digit Number	Divide by a One-Digit Number	Divide by a One-Digit Number	Divide by a One-Digit Number	Divide by a One-Digit Number
Standards: 4.NBT.A.1 4.NBT.A.3 4.NBT.B.6 4.OA.A.3	How does division affect numbers?	-Multiples of 10, 100, and 1,000 -Estimates -Place Value -Models -Remainders -First digit of quotient -Distributive Property and Partial Quotients -Greater numbers -Quotients with zeros -Multi-step word problems	-Divide multiples of 10, 100, and 1,000 -Estimate quotients -Use place value to divide -Make a model -Divide with remainders -Interpret remainders -Place the first digit of a quotient -Use the Distributive Property and Partial Quotients -Divide greater numbers -Find quotients with zeros -Solve multi-step word problems	-McGraw-Hill <i>My Math</i> Grade 4 assessments (2016)	-McGraw-Hill <i>My Math</i> Grade 4 (2016)	-McGraw-Hill <i>My Math</i> Grade 4 online textbook (2016) -Elmo
March	Patterns and Sequences	Patterns and Sequences	Patterns and Sequences	Patterns and Sequences	Patterns and Sequences	Patterns and Sequences
Standards: 4.OA.A.3 4.OA.C.5	How are patterns used in mathematics?	-Nonnumeric Patterns -Numeric Patterns -Sequences -Look for a pattern -Addition and Subtraction Rules -Multiplication and Division Rules -Order of Operations -Equations with Two Operations -Equations with Multiple Operations	-Describe nonnumeric growing and repeating patterns -Identify, describe, and extend numeric patterns -Extend patterns and write observations about a pattern -Look for a pattern to solve problems -Find and use rules to write addition and subtraction equations	-McGraw-Hill <i>My Math</i> Grade 4 assessments (2016)	-McGraw-Hill <i>My Math</i> Grade 4 (2016)	-McGraw-Hill <i>My Math</i> Grade 4 online textbook (2016) -Elmo

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	Questions					
April Standards: 4.NF.B.3 4.NF.B.4	Fractions How can different fractions name the same amount?	Fractions -Factors and multiples -Prime and composite numbers -Equivalent fractions -Simplest form -Comparing and ordering fractions -Benchmark fractions -Logical reasoning -Mixed numbers -Mixed numbers and improper fractions	 -Find and use rules to write multiplication and division equations -Use the Order of Operations to solve problems -Explore equations with two operations Fractions -Determine factors and multiples -Identify prime and composite numbers -Model and identify equivalent fractions -Reduce fractions to simplest form -Compare and order fractions -Use benchmark fractions to compare and order fractions -Use logical reasoning to solve problems -Write mixed numbers -Write mixed numbers and improper fractions 	Fractions -McGraw-Hill <i>My Math</i> Grade 4 assessments (2016)	Fractions -McGraw-Hill <i>My Math</i> Grade 4 (2016)	Fractions -McGraw-Hill <i>My Math</i> Grade 4 online textbook (2016) -Elmo
May Standards: 4.NF.B.3 4.NF.B.4	Operations with Fractions How are operations used to model real-world fractions?	Operations with Fractions -Models for addition -Addition of like fractions -Models for subtraction -Working backward -Addition of mixed numbers	Operations with Fractions -Use models to add like fractions -Add like fractions -Use models to subtract like fractions -Solve problems by working backward -Add mixed numbers	Operations with Fractions -McGraw-Hill <i>My Math</i> Grade 4 assessments (2016)	Operations with Fractions -McGraw-Hill <i>My Math</i> Grade 4 (2016)	Operations with Fractions -McGraw-Hill <i>My Math</i> Grade 4 online textbook (2016) -Elmo

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Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
		-Subtraction of mixed numbers -Models for fractions and multiplication -Multiplying by whole numbers	-Subtract mixed numbers -Model fractions and multiplication -Multiply fractions by whole numbers			