Grade 5 Math

Quincy, Illinois

Diar	y map is based on the 2017-20	018 school year. Information	n may change year to	o year.	Months are guidelines and it	ems may be done at differen	nt times of the year.			
Month	Essential Questions	Content	Skills		Assessment	Resources	Technology			
	Common Core Standar	ds for Mathematical Conto	ent	Common Core Standards for Mathematical Practice MP 1 Make sense of problems and persevere in solving them						
Operation	and Algebraic Thinking			MP.1	Make sense of problems a	ind persevere in solving ther	n.			
5.OA.A	Write and interpret numerica	l expressions.		MP.2	Reason abstractly and qua	intitatively.				
5.0A.B	Analyze patterns and relation	nships.		MP 4 Model with mathematics						
Normhan ar	d Onessetiens in Dess Ten			MP.4 Model with mathematics.						
Number an	Understand the place value of	vstom		MP.5 Use appropriate tools strategically.						
5 NRT R	Perform operations with mul	ti digit whole numbers and x	with decimals to	MP 7 Look for and make use of structure						
J.NDI.D	hundredths	u-digit whole numbers and v	with decimals to	MP 8	Look for and express requ	Siluciule.				
	nunureutils.			WII .0	Look for and express legt	lianty in repeated reasoning.				
Number ar	nd Operations—Fractions			*Pract	ice standards are ongoing al	l vear.				
5.NF.A	Use equivalent fractions as a	strategy to add and subtract	fractions.							
5.NF.B	Apply and extend previous u	nderstandings of multiplicat	ion and division to							
	multiply and divide fractions	Э.								
Measurem	ent and Data									
5.MD.A	Convert like measurement ur	nits within a given measurem	nent system.							
5.MD.B	Represent and interpret data.									
5.MD.C	Geometric measurement: und	lerstand concepts of volume	and relate volume							
	to multiplication and to addit	tion.								
Geometry	Create a sinta an the according									
5.G.A	brablems	te plane to solve real-world a	and mathematical							
5 G B	Classify two dimensional fig	uras into cotagorias based on	their properties							
Ongoing		ALFKS	ALFKS		ALEKS		ALEKS			
Unguing	How are math skills	-Grade level math topics	-Apply math skills	to	-Mastery of		-ALEKS program			
Standards	practiced and applied?	and prerequisites	solve problems the	nt are	individualized topics		-iPads			
All	praetieea ana appriea.	und prorequisites	individualized base	ed on	multileu topies		ii uub			
			level of readiness	ou on						
AugSept.	Place Value	Place Value	Place Value		Place Value	Place Value	Place Value			
8 F.	How does the position	-Place-value	-Read and write w	hole	McGraw Hill My Math	McGraw Hill My Math	-SMART Board			
Standards	rds: of a digit in a number -Period numbers throu				Grade 5, Volume 1	Grade 5, Volume 1	-ALEKS			
5.NBT.A.1	relate to its value?	-Place	millions		(2016)	(2016)	-website:			
5.NBT.A.3		-Standard form	-Compare and orde	er	-student book	-student book	www.connectED.mcgra			
5.NBT.A.3	a -Expanded form whole numbers				-Assessment Masters	-Assessment Masters	ters w-hill.com			
5.NBT.A.3	b	-Decimal	millions		-teacher edition website -teacher edition website					
5.NBT.B.5		-Decimal point	-Use models to rela	ate	for differentiated	for differentiated				

St. Peter School

1	Month	Essential Questions	Contont	Skille	Assassment	Deseurees	Taabnala
	Diary	map is based on the 2017-20)18 school year. Informatio	n may change year to year.	Months are guidelines and i	tems may be done at differe	nt times of the year

WIONUN	Essential Questions	Content	SKIIIS	Assessment	Resources	rechnology
		-Equivalent decimals	decimals to fractions	instruction	instruction	
		1	-Represent fractions that			
			name tenths, hundredths,		-Place Value Chart	
			and thousandths as			
			decimals			
			-Understand place value			
			in decimal numbers			
			-Read and write			
			decimals in standard			
			form, expanded form,			
			and word form			
			-Compare decimals			
			-Order whole numbers			
			and decimals			
			-Solve problem using the			
			four-step plan			
Sept Oct.	Numbers	Multiply Whole	Multiply Whole	Multiply Whole	Multiply Whole	Multiply Whole
	What strategies can be	Numbers	Numbers	Numbers	Numbers	Numbers
Standards:	used to multiply whole	-Prime factorization	-Find the prime	McGraw Hill My Math	McGraw Hill My Math	-SMART Board
5.NBT.B.5	numbers?	-Exponent	factorization of numbers	Grade 5, Volume 1	Grade 5, Volume 1	-ALEKS
5.NBT.A.2		-Base	-Explore patterns in	(2016)	(2016)	-website:
		-Power	prime factorization	-student book	-student book	www.connectED.mcgra
		-Squared	-Use powers and	-Assessment Masters	-Assessment Masters	w-hill.com
		-Cubed	exponents in expressions	-teacher edition website	-teacher edition website	
		-Powers of 10	-Use basic facts and	for differentiated	for differentiated	
		-Distributive Property	patterns to multiply	instruction	instruction	
		-Compatible numbers	multiples of 10, 100,			
			1000 mentally		-Multiplication tables	
			-Make a table to solve		-Calculators	
			problems		-Place Value Chart	
			-Explore multiplication		-Area model	
			by using area models		-Dry erase boards and	
			-Use the distributive		markers	
			property to multiply			
			mentally			
			-Estimate products by			
			using rounding and			
			compatible numbers			

Quincy, Illinois

Grade 5 Math

Month	Essential Questions	Content	Skills	Assessment	Resources	Technology	
MonthEssential QuestionsConOct.Divide by a One-Digit DivisorDivide by a DivisorStandards: 5.NBT.B.6What strategies can be used to divide whole numbers?Divisor -Fact family -Unknown v. -Variable -Dividend -Divisor -Quotient -Remainder		Content Divide by a One-Digit Divisor -Fact family -Unknown variables -Variable -Dividend -Divisor -Quotient -Remainder	Skills -Multiply up to a three- digit number by a one- digit number -Multiply up to a three- digit number by a two- digit number Divide by a One-Digit Divisor -Understand how division and multiplication are related -Explore division using models -Carry out division with and without remainders -Use basic facts and patterns to divide multiples of 10, 100, 1000 mentally -Estimate quotients by using rounding and compatible numbers -Explore division with greater numbers using	Assessment Divide by a One-Digit Divisor McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	Divide by a One-Digit Divisor McGraw Hill My Math Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators	Technology Divide by a One-Digit Divisor -SMART Board -ALEKS -website: www.connectED.mcgra w-hill.com	
Nov.	Divide by a One-Digit Divisor	Divide by a One-Digit Divisor	Divide by a One-Digit	Divide by a One-Digit Divisor	Divide by a One-Digit Divisor	Divide by a One-Digit Divisor	
Standards: 5.NBT.B.6	What strategies can be used to divide whole numbers?	(continued from October) -Partial quotients	-Divide using the Distributive Property and partial quotients -Divide up to a four-digit number by a one-digit number -Understand how to place the first digit in a quotient -Solve division problems that result in quotients	McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation	-SMART Board -ALEKS -website: www.connectED.mcgra w-hill.com	

Quincy, Illinois

Grade 5 Math

Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
Dec. Standards: 5.NBT.B.6	Divide by a Two-Digit Divisor What strategies can be used to divide by a two- digit divisor?	Divide by a Two-Digit Divisor -Compatible numbers -Remainder -Dividend -Estimate -Quotient -Round	that have zeroes -Explore how to interpret the remainder in a division problem -Interpret the remainder in a division problem -Identify extra information or missing information needed to solve a problem Divide by a Two-Digit Divide by a Two-Digit Divisor -Estimate quotients with two-digit divisors -Explore dividing by two-digit divisors using models -Divide up to a three- digit number by a two- digit divisor -Adjust the quotient when the estimated digit is too high or too low -Divide greater numbers by multi-digit divisors -Solve problems by solving a simpler probleme	Divide by a Two-Digit Divisor McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	-Dry erase boards and markers -Multiplication tables -Calculators Divide by a Two-Digit Divisor McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators	Divide by a Two-Digit Divisor -SMART Board -ALEKS -website: www.connectED.mcgra w-hill.com
Jan.	Add and Subtract	Add and Subtract	Add and Subtract	Add and Subtract	Add and Subtract	Add and Subtract
	Decimals	Decimals	Decimals	Decimals	Decimals	Decimals
Standards: 5.NBT.A.4 5.NBT.B.7	How are place value and properties used to add and subtract decimals?	-Commutative Property of Addition -Associative Property of Addition -Identity Property of Addition	-Round decimals -Estimate sums and differences by rounding -Solve problems by using an estimate or an exact answer -Explore adding decimals using base-ten	McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	-SMART Board -ALEKS -website: www.connectED.mcgra w-hill.com

Quincy, Illinois

Grade 5 Math

Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
Standards: 5.NBT.A.2 5.NBT.B.5 5.NBT.B.6 5.NBT.B.7	Multiply and Divide Decimals How is multiplying and dividing decimals similar to multiplying and dividing whole numbers?	Multiply and Divide Decimals -Decimals -Estimation -Place value	blocks -Explore adding decimals using models -Add decimals -Use the Associative, Commutative, and Identity Properties to add whole numbers and decimals mentally -Explore subtracting decimals using base-ten blocks -Explore subtracting decimals using models -Subtract decimals Multiply and Divide Decimals -Estimate products of whole numbers and decimals -Explore multiplying decimals by whole numbers	Multiply and Divide Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	-Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators -Calculators Multiply and Divide Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables	Multiply and Divide Decimals -SMART Board -ALEKS -website: www.connectED.mcgra w-hill.com
Feb.	Multiply and Divide	Multiply and Divide	Multiply and Divide	Multiply and Divide	Multiply and Divide	Multiply and Divide
<i>a.</i> . -	Decimals	Decimals	Decimals	Decimals	Decimals	Decimals
Standards:	How is multiplying and	-Associative Property of	-Multiply decimals by	McGraw Hill My Math	McGraw Hill My Math	-SMART Board
5.NBT.A.2	dividing decimals	Multiplication	whole numbers	Grade 5, Volume 1	Grade 5, Volume 1	-ALEKS
5.NBT.B.5	similar to multiplying	-Commutative Property	-Explore using decimal	(2016)	(2016)	-website:

St. Peter School

1	Month	Eccential Questions	Contont	<u>Claima</u>	Aggaggmant	Deseumans	Tashnalag
	Diary	map is based on the 2017-20	018 school year. Informatic	n may change year to year.	Months are guidelines and i	tems may be done at differe	nt times of the year.

IVIOIILII	Essential Questions	Content	SKIIIS	Assessment	Resources	rechnology
5.NBT.B.6	and dividing whole	of Multiplication	models to multiply	-student book	-student book	www.connectED.mcgra
5.NBT.B.7	numbers?	-Identity Property of	decimals	-Assessment Masters	-Assessment Masters	w-hill.com
		Multiplication	-Multiply decimals by	-teacher edition website	-teacher edition website	
		-Power of 10	decimals	for differentiated	for differentiated	
		-Quotient	-Multiply decimals by	instruction	instruction	
		-	powers of 10			
			-Solve problems by		-Assorted Anchor Charts	
			looking for a pattern		for differentiation	
			-Use the Associative,		-Dry erase boards and	
			Commutative, and		markers	
			Identity properties to		-Multiplication tables	
			multiply mentally		-Calculators	
			-Estimate quotients of			
			decimals and whole			
			numbers			
			-Explore dividing			
			decimals by whole			
			numbers			
			-Divide decimals by			
			whole numbers			
March	Multiply and Divide	Multiply and Divide	Multiply and Divide	Multiply and Divide	Multiply and Divide	Multiply and Divide
Ctore devides	Decimals	Decimals	Decimals	Decimals	Decimals	Decimals SMADT Decid
Standards:	How is multiplying and	-Divide	-Explore using models to	McGraw Hill My Math	McGraw Hill My Math	-SMARI Board
5.NBT.A.2	dividing decimais	-Divisor	divide decimais by	Grade 5, Volume 1	Grade 5, Volume 1	-ALEKS
J.NDI.D.J	and dividing whole	-Dividend	Divide desimple by	(2010)	(2010)	-website.
5.NB1.B.0	and dividing whole	-Exponents	-Divide decimais by	-student book	-student book	www.connectED.mcgra
J.IND I.D. /	numbers?		Divide desimals by	-Assessment Masters	-Assessment Masters	w-mm.com
			-Divide decimais by	for differentiated	for differentiated	
			powers of ten	instruction	instruction	
				listituction	listituction	
					-Assorted Anchor Charts	
					for differentiation	
					-Dry erase boards and	
					markers	
					-Multiplication tables	
					-Calculators	

St. Peter School

Diary	map is based on the 2017-2	018 school year. Informatio	n may change year to year.	Months are guidelines and i	tems may be done at differe	nt times of the year.
Month	Essential Ouestions	Content	Skills	Assessment	Resources	Technology

	E E					8,
Standards: 5.OA.A.1 5.OA.A.2 5.OA.B.3 5.G.A.2 5.G.A.1	Expressions and Patterns How are patterns used to solve problems?	Expressions and Patterns -Numerical expression -Evaluate -Order of operations	Expressions and Patterns -Write and evaluate numerical expressions -Use the order of operations -Use numbers and operation symbols to write verbal phrases as numerical expressions -Solve problems by working backward -Generate numerical patterns and identify pattern relationships	Expressions and Patterns McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	Expressions and Patterns McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators	Expressions and Patterns -SMART Board -ALEKS -website: www.connectED.mcgra w-hill.com
April Standards: 5.OA.A.1 5.OA.A.2 5.OA.B.3 5.G.A.2 5.G.A.1	Expressions and Patterns How are patterns used to solve problems?	Expressions and Patterns -Sequence -Term -Coordinate plane -Origin -Ordered pair -X-coordinate -Y-coordinate	Expressions and Patterns -Identify and extend patterns and sequences -Plot points on a grid to solve real-world problems -Graph points on a coordinate plane to solve real-world and mathematical problems -Graph ordered pairs on a coordinate plane to solve problems involving two numerical patterns	Expressions and Patterns McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction	Expressions and Patterns McGraw Hill <i>My Math</i> Grade 5, Volume 1 (2016) -student book -Assessment Masters -teacher edition website for differentiated instruction -Assorted Anchor Charts for differentiation -Dry erase boards and markers -Multiplication tables -Calculators	Expressions and Patterns -SMART Board -ALEKS -website: www.connectED.mcgra w-hill.com
Standards: 5.NF.B.3 5.NF.A.2	Fractions and Decimals How are factors and	Fractions and Decimals -Fraction -Numerator	Fractions and Decimals -Solve word problems by interpreting a fraction as	Fractions and Decimals McGraw Hill <i>My Math</i> Grade 5, Volume <u>1</u>	Fractions and Decimals McGraw Hill <i>My Math</i> Grade 5, Volume 1	Fractions and Decimals -SMART Board

St. Peter School

Grade 5 Math

Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
5.NF.B.5b	multiples helpful in	-Denominator	a division of the	(2016)	(2016)	-ALEKS
5.NBT.B.5	solving problems?	-Common factors	numerator by the	-student book	-student book	-website:
		-Greatest Common	denominator	-Assessment Masters	-Assessment Masters	www.connectED.mcgra
		Factor (GCF)	-Determine the common	-teacher edition website	-teacher edition website	w-hill.com
		-Simplest form	factors and the greatest	for differentiated	for differentiated	
		-Equivalent fractions	common factor of a set	instruction	instruction	
		-Multiple	of numbers			
		-Common multiples	-Generate equivalent		-Assorted Anchor Charts	
		-Least Common Multiple	fractions by writing a		for differentiation	
		(LCM)	fraction in simplest form		-Dry erase boards and	
		-Least Common	-Guess, check, and		markers	
		Denominator (LCD)	revise to solve problems			
			-Determine the common			
			multiples and the least			
			common multiples of a			
			set of numbers			
			-Compare fractions by			
			using the least common			
			denominator			
			-Explore how to use			
			models and fraction			
			equivalence to write			
			fractions as decimals			
			-Use fraction			
			equivalence to write			
			fractions as decimals			
May	Add and Subtract	Add and Subtract	Add and Subtract	Add and Subtract	Add and Subtract	Add and Subtract
	Fractions	Fractions	Fractions	Fractions	Fractions	Fractions
Standards:	How can equivalent	-Like fraction	-Use number lines and	McGraw Hill My Math	McGraw Hill My Math	-SMART Board
5.NF.A.2	fractions help to add	-Unlike fraction	benchmark fractions,	Grade 5, Volume 1	Grade 5, Volume 1	-ALEKS
5.NF.A.1	and subtract fractions?		such as $1/2$, to round	(2016)	(2016)	-website:
			fractions	-student book	-student book	www.connectED.mcgra
			-Add like fractions and	-Assessment Masters	-Assessment Masters	w-hill.com
			solve word problems	-teacher edition website	-teacher edition website	
			involving the addition of	for differentiated	for differentiated	
			like fractions	instruction	instruction	
			-Subtract like fractions			
			and solve word problems		-Assorted Anchor Charts	

Quincy, Illinois

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				0		A				~										

Month	Essential Questions	Content	Skills	Assessment	Resources	Technology
			involving the subtraction		for differentiation	
			of like fractions		-Dry erase boards and	
			-Use models to add		markers	
			unlike fractions			
			-Add unlike fractions			
			and solve word problems			
			involving the addition of			
			unlike fractions			
			-Use models to subtract			
			unlike fractions			
			-Subtract unlike fractions			
			and solve word problems			
			involving the subtraction			
			of unlike fractions			
			-Solve problems by			
			determining reasonable			
			answers			
			-Use number sense and			
			benchmark fractions to			
			estimate sums and			
			differences			
			-Explore adding mixed			
			numbers using models			
			-Add mixed numbers			
			and solve word problems			
			involving the addition of			
			mixed numbers			
			-Subtract mixed numbers			
			and solve word problems			
			involving the subtraction			
			of mixed numbers			
			-Use fraction			
			equivalence to subtract			
			with renaming			
Standarde	Multinly and Divide	Multinly and Divide	Multinly and Divide	Multinly and Divide	Multinly and Divide	Multinly and Divide
5 NF B 4a	Fractions	Fractions	Fractions	Fractions	Fractions	Fractions
5 NF B 6	What strategies can be	-Scaling	-Explore how to find part	McGraw Hill My Math	McGraw Hill My Math	-SMART Board
Standards: 5.NF.B.4a 5.NF.B.6	Multiply and Divide Fractions What strategies can be	Multiply and Divide Fractions -Scaling	Multiply and Divide Fractions -Explore how to find part	Multiply and Divide Fractions McGraw Hill <i>My Math</i>	Multiply and Divide Fractions McGraw Hill <i>My Math</i>	Multiply and Divide Fractions -SMART Board

St. Peter School

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	Diarv	map is based on the 2017-20	018 school vear. Information	on may change year to year.	Months are guidelines and	items may be done at differe	nt times of the v	ear

WIOIIUI	Essential Questions	Content	SKIIIS	Assessment	Resources	rechnology
5.NF.B.4b	used to multiply and	-Unit fraction	of a number	Grade 5, Volume 1	Grade 5, Volume 1	-ALEKS
5.NF.B.4	divide fractions?		-Estimate products of	(2016)	(2016)	-website:
5.NF.B.5a			fractions using	-student book	-student book	www.connectED.mcgra
5.NF.B.7c			compatible numbers and	-Assessment Masters	-Assessment Masters	w-hill.com
5.NF.B.7b			rounding	-teacher edition website	-teacher edition website	
5.NF.B.7.a			-Explore multiplying	for differentiated	for differentiated	
			whole numbers and	instruction	instruction	
			fractions using models			
			-Multiply whole		-Assorted Anchor Charts	
			numbers and fractions		for differentiation	
			-Explore using models to		-Dry erase boards and	
			multiply a fraction by a		markers	
			fraction			
			-Multiply fractions			
			-Multiply mixed			
			numbers			
			-Interpret multiplication			
			of fractions as scaling			
			-Divide whole numbers			
			by unit fractions using			
			models			
			-Use bar diagrams to			
			divide whole numbers by			
			unit fractions			