Southern York County School District

One Warrior at a Time

Course/Subject: Math Comprehensive Units Grade Level: 4

Textbook(s)/Materials Used: Ready Pennsylvania Math Instruction, Practice Problem Solving, Assessment, i-Ready Diagnostic & Instruction

Month(s): Septem	ber		Unit 1			
Number and Opera	ations in Base Ten					
Big Idea	<u>Standard</u>	<u>Eligible</u> <u>Content</u>	Essential Questions & Lesson Essential Question	<u>Concepts</u>	Vocabulary	<u>Competencies</u>
 Mathematical relationships among numbers can be represented, compared, and communicated. Mathematical relationships can be represented as expressions, equations and inequalities in mathematical situations. Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools. Patterns exhibit relationships that can be extended, 	CC.2.1.4.B.1 Apply place value concepts to show an understanding of multi-digit whole numbers. CC.2.1.4.B.2 Use place-value understanding and properties of operations to perform multi-digit arithmetic. CC.2.2.4.A.1 Represent and solve problems involving the four operations	M04.A-T.1.1.1 Demonstrate an understanding that in a multi- digit whole number (through 1,000,000), a digit in one place represents ten times what it represents in the place to its right. M04.A-T.1.1.2 Read and write whole numbers in expanded, standard, and word form through 1,000,000. M04.A-T.1.1.3 Compare two multi-digit numbers through 1,000,000	 Lesson 0: Identify and explain models or strategies used to solve problems. Use math talk practices to efficiently share and compare strategies for solving problems. Apply math knowledge and modeling techniques to new, similar problems. Evaluate models of three- digit numbers to determine whether numbers are greater than, less than, or equal to each other. Break apart numbers and use place-value models to add and subtract three-digit numbers. Lesson 1: Use a place-value chart to understand the value of each digit in a number. Identify the value of a digit 	Place Value and Properties of Operations	compareTo decide if onenumber isgreater than,less than, orequal toanother number.greater thansymbol (<)	Demonstrate an understanding of multi-digit whole numbers. Compare and round multi-digit numbers. Perform multi- digit arithmetic.

described, and	based on	based on its position in a	have the same
generalized.	meanings of the	number.	value
	digits in each		
	place using >	 Demonstrate how moving a 	regroup
	,=, and $<$	digit from	To compose or
	symbols.	one place-value position to	decompose
	-,	the next	ones, tens, or
	M04.A-T.1.1.4	changes the value of the	hundreds. For
	Round multi-	digit.	example, 10
	digit whole		ones can be
	numbers	 Show that any number can 	regrouped as 1
	(through	be	ten, or 2
	1,000,000) to	represented in different ways.	hundreds can be
	any place.		regrouped as 20
		 Use standard form, word 	tens.
	M04.A-T.2.1.1	form, and expanded form to	
	Add and	read and write	period
	subtract multi-	multi-digit whole numbers.	A group of three
	digit whole		places in a
	numbers (limit	 Read and write multi-digit 	number, usually
	sums and	whole	separated by
	subtrahends up	numbers in standard form,	commas. The
	to and including	word form, and expanded	first three
	1,000,000).	form.	periods are the
	1,000,000).		ones period,
	M04.A-T.2.1.4	 Tell the value of each digit 	thousands
	Estimate the	in a number using a place	period, and the
	answer to	value chart.	millions period.
	addition and		
	subtraction	 Tell how the value of a digit 	word form
	problems using	changes	The way a
	whole numbers	when it moves one place to	number is
	through 6 digits	the left or right.	written with
	(for	, , , , , , , , , , , , , , , , , , ,	words or said
	multiplication,	Lesson 2:	aloud.
	no more than 2	•Use symbols (>, <, =) to	
	digits x 1 digit,	show the	standard form
	excluding	relationship between two	The way a
	powers of 10.)	multi-digit numbers.	number is
			written with
		Compare multi-digit	numerals.
		numbers in order to solve	
		word problems.	expanded form

	The way a
Read aloud inequality	number is
statements	written to show
comparing two whole	the place value
numbers.	of each digit; for
	example 234=
Compare multi-digit	(2x100) + (3X10)
numbers using	+ (4x1).
place value charts and	
expanded form.	sum
	The result of
Write inequality statements	addition.
using	
symbols >,<, and = to	difference
compare	The result of
numbers.	subtraction.
Orally define and use the	round
-	To approximate
key	
vocabulary terms compare,	the value of a
greater	number by
than, less than, and equal to	finding the
when	nearest ten,
discussing comparisons.	hundred, or
	other place
Lesson 3:	value.
Use the standard algorithm to	
add	to estimate
multi-digit whole numbers.	To give an
	approximate
Use the standard algorithm	number or
	answer based
to subtract multi-digit whole	
numbers.	on
	mathematical
Tell when and how to use	thinking.
regrouping	
in adding or subtracting multi-	an estimate
digit whole numbers.	A close guess
	made using
Record sums and	mathematical
differences using the	thinking.
standard algorithms and	
	place value
explain the meaning of	place value

regrouping notation.	The value of the
	place a digit
Tell which operation to use	occupies in a
to solve a word problem.	number.
Lesson 4:	
Round multi-digit whole	
numbers.	
 Explain how to round a 	
multi-digit	
whole number to a specific	
place value.	
Use rounded numbers to	
estimate a sum or difference	
in a word problem.	
Tell how to round a given	
multi-digit number to a specific place	
value.	
Draw a number lines to	
round multi digit numboro	
multi-digit numbers.	
 Summarize word problems 	
that ask for rounded	
numbers.	
How is mathematics used to	
quantify, compare, represent,	
and model numbers?	
Library and the set	
How can mathematics support effective	
communication?	
How are relationships	
represented mathematically?	
What does it mean to	

Month(s): October Operations and Al			estimate or analyze numerical quantities? When is it is appropriate to estimate versus calculate? What makes a tool and/or strategy appropriate for a given task? How can patterns be used to describe relationships in mathematical situations? Unit 2			
Big Idea	Standard	Eligible	Essential Questions &	<u>Concepts</u>	Vocabulary	Competencies
		Content	Lesson Essential Question			
-Mathematical relationships among numbers can be represented, compared, and communicated. -Mathematical relationships can be represented as expressions, equations and inequalities in mathematical situations. -Patterns exhibit relationships that can be extended, described, and generalized.	CC.2.2.4.A.1 Represent and solve problems involving the four operations. CC.2.2.4.A.2 Develop and/or apply number theory concepts to find factors and multiples. CC.2.2.4.A.4 Generate and analyze patterns using one rule.	M04.B-O.1.1.1 Interpret a multiplication equation as a comparison. Represent verbal statements of multiplicative comparisons as multiplication equations. M04.B-O.1.1.2 Multiply or divide to solve word problems involving multiplicative comparison, distinguishing multiplicative comparison	 Lesson 5: Use a multiplication sign to represent the relationship between two numbers as a multiplicative comparison. Identify a multiplication equation as showing two ways to describe a product as a comparison between two factors. Understand the difference between multiplicative comparison and additive comparison. Write an equation to represent a multiplicative comparison described in a word problem. Write a word problem using a 	Number Theory Patterns	multiplicative comparisonA comparisonA comparisonthat tells howmany times asmany; forexample; 7 3 3 521 representsthat 21 is 3times as manyas 7, and that 21is 7 times asmany as 3.productThe result ofmultiplication.factorA number that ismultiplied.equationA mathematical	*Represent and solve problems verbally as equations. *Use factors to represent numbers in various ways. *Recognize that a whole number is a multiple of each of its factors. *Generate and analyze patterns that follow a single rule.

	france adalities		
-Mathematical	from additive	multiplicative comparison to	statement that
relations and	comparison.	describe a given multiplication	uses an equal
functions can be		equation.	sign (=) to show
modeled through	M04.B-O.1.1.3		that two
multiple	Solve multi-step	Write a multiplication	expressions
representations	word problems	equation to represent a	have the same
and analyzed to	posed with	multiplicative comparison	value.
raise and answer	whole numbers	between two numbers.	
questions.	using the four		unknown
	operations.	 Write a multiplication 	The value you
-Data can be	Answers will be	equation to represent a	need to find to
modeled and used	either whole	multiplicative comparison	solve a problem.
to make	numbers or	described in a word problem.	
inferences.	have		symbol
	remainders	 Describe a real-world 	A character,
	that must be	comparison situation that can	such as a letter
	interpreted	be represented by a given	or question
	yielding a final	multiplication equation.	mark, which can
	answer that is a		be used to stand
	whole number.	Lesson 6:	for an unknown
	Represent	Use drawings and symbols to	number in an
	these problems	represent a word problem	equation.
	using equations	involving multiplicative	
	with a symbol or	comparison.	factors of a
	letter standing		number
	for the	Use an equation to solve for	Whole numbers
	unknown	the unknown in a multiplicative	that multiply
	quantity.	comparison problem.	together to get
			the given
	M04.B-O.1.1.4	Solve word problems	number.
	Identify the	involving multiplicative	
	missing	comparisons by using	factor pair
	symbol (+, -, X,	multiplication or division.	Two numbers
	÷, =, < and >)		that are
	that makes a	Discuss multiplicative	multiplied
	number	comparisons using the phrase	together to give
	sentence true	"times as many."	a product.
	(single-digit		
	divisor only).	Draw a diagram to represent	multiple
	,,,.	a word problem involving	The product of a
	M04.B-O.2.1.1	multiplicative comparison	given number
	Find all factor	problem.	and any other
	pairs for a	F. 52.000	whole number;

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	whole number	 Write an equation to solve for 	for example, 0,
	in the interval 1	the unknown in a multiplicative	4, 8, 12, and so
	through 100.	comparison problem.	on are multiples
	Recognize that		of 4.
	a whole number	 Summarize word problems 	
	is a multiple of	involving a multiplicative	composite
	each of its	comparison and tell whether to	number
	factors.	use multiplication or division to	A number that
	Determine	solve.	has more than
	whether a given		one pair of
	whole number	Lesson 7:	factors.
	in the interval 1	Use basic multiplication facts	
	through 100 is a	to list all the factors of a	prime number
	multiple of a	number.	A whole number
	given one-digit		that has only
	number.	 Use basic multiplication facts 	one pair of
	Determine	to determine whether a	factors: itself
	whether a given	number is a multiple of	and 1.
	whole number	another number.	
	in the interval 1		rule
	through 100 is	 Apply understanding of 	A procedure that
	prime or	multiples and factors to solving	is followed to go
	composite.	problems.	from one
	•		number or
	M04.B-O.3.1.1	 List the factors of a whole 	shape to the
	Generate a	number.	next in a pattern.
	number or		
	shape pattern	 Skip count aloud or silently to 	pattern
	that follows a	find multiples of 2, 5, and 10.	A series of
	given rule.	, , ,	numbers or
	Identify	Draw diagrams to justify	shapes that
	apparent	arguments about factors,	follow a rule to
	features of the	multiples, prime numbers, and	repeat or
	pattern	composite numbers.	change.
	that were not		
	explicit in the	Orally define and use in	function
	rule itself.	discussion the key	A relationship
		mathematical terms factor,	between two
	M04.B-O.3.1.2	factor pair, multiple, composite	variables; A rule
	Determine the	number, and prime number.	is applied to one
	missing		variable in order
	elements in a	Lesson 8:	to determine the
	function table	Use rules to generate or	other variable.

	(limit to 1	avtand a number pattern	
	(limit to 1,	extend a number pattern.	
	2, or 3 and to		expression
	whole numbers	Use manipulatives or	A group of one
	or money).	drawings to show a shape	or more
		pattern.	numbers,
	M04.B-O.3.1.3		unknowns,
	Determine the	 Describe, analyze, and 	and/or operation
	rule for a	extend patterns in numbers	symbols that
	function given a	and shapes.	represents a
	table (limit to 1,		quantity; for
	2, or 3 and to	 Extend a shape or number 	example, 3 x 4.
V	whole	pattern.	
	numbers).		unknown
		 Describe attributes of 	The value you
		numbers or shapes in a	need to find to
		pattern to help identify the rule	solve a problem.
		for the pattern.	
			equation
		 Tell the rule for a pattern. 	A mathematical
			statement that
		Determine a rule from a	uses an equal
		function table and find missing	sign (=) to show
		values in a function table.	that two
			expressions
		Lesson 9:	have the same
		Use equations with a letter	value.
		standing for the unknown to	
		represent multi-step word	remainder
		problems.	The amount left
		F	over that cannot
		Draw a bar model to	be divided
		represent multi-step word	evenly by the
		problems.	divisor.
		Write equations with a letter	reasonable
		standing for the unknown to	Something that
		represent multi-step word	makes sense
		problems.	when given facts
			are taken into
		Compare the different	account.
		approaches used by others	
		and identify connections	
		among the approaches.	

Lesson 10: Write and solve an equation in order to solve a multi-step word problem.
• Complete an equation by inserting the symbols that make it true.
Interpret the remainder in a division word problem.
Use estimation strategies to check that an answer is reasonable.
Draw a diagram to represent a multi-step word problem.
• Solve multi-step word problems using an equation or a diagram.
Justify the approach used to solve a word problem.
• Tell whether a solution is reasonable by comparing the result to an estimate.
Orally define and use in discussion the key term reasonable.
• Tell the specific meaning of a remainder in a division word problem and how it affects the answer to the problem.
How is mathematics used to quantify, compare, represent, and model numbers?

Content Lesson Essential Question

-Mathematical	CC.2.1.4.B.2	M04.A-T.2.1.2	Lesson 11:	Place Value	partial products	*Demonstrate an
relationships	Use place-value	Multiply a whole	Multiply whole numbers of up	Properties of	A strategy used	understanding of
among numbers	understanding	number of up to	to four digits by one-digit	Operations	to multiply multi-	multi-digit whole
can be	and properties of	four digits by a	whole numbers.		digit numbers;	numbers.
represented,	operations to	one-digit whole			the products you	
compared, and	perform multi-	number and	 Multiply a two-digit number 		get in each step	*Compare and
communicated.	digit arithmetic.	multiply 2 two-	by a two-digit number.		are called	round multi-digit
	U	digit numbers.	, ,		"partial	numbers.
-Mathematical	CC.2.2.4.A.1	J. J	 Use area models and partial 		products". For	Perform multi-
relationships can	Represent and	M04.A-T.2.1.4	products to multiply.		example, the	digit arithmetic.
be represented as	solve problems	Estimate the			partial products	
expressions,	involving the four	answer to	 Estimate the product of a 		for 124 x 3 are 3	
equations and	operations.	addition,	two-digit number and a one-		x 100 or 300, 3 x	
inequalities in		subtraction, and	digit number.		20 or 60, and 3 x	
mathematical		multiplication	-		4 or 12.	
situations.		problems using	Language Objectives			
		whole numbers			<i>multiplication</i> An	
-Numerical		through six	 Read aloud multiplication 		operation used	
quantities,		digits (for	problems.		to find the total	
calculations, and		multiplication,			number of items	
measurements		no more than 2	 Draw an area model to 		in equal sized	
can be estimated		digits 3 1 digit,	multiply.		groups.	
or analyzed by		excluding				
using appropriate		powers of 10).	 Write out a solution to a 		product	
strategies and			multiplication problem using		The result of	
tools.		M04.B-O.1.1.2	partial products.		multiplication.	
		Multiply or				
-Patterns exhibit		divide to solve	• Tell how each part of an area		factor	
relationships that		word problems	model relates to the factors,		A number that is	
can be extended,		involving	partial products, and product		multiplied.	
described, and		multiplicative	of a multiplication problem.			
generalized.		comparison,	10		multiple	
		distinguishing	Lesson 12:		The product of a	
		multiplicative	Divide up to four-digit		given number	
		comparison	dividends by one-digit divisors,		and any other	
		from additive	with remainders.		whole number;	
		comparison.	allos ares models, subtraction		for example, 0,	
			• Use area models, subtraction		4, 8, 12, and so	
		M04.A-T.2.1.2	of partial products, and partial		on are multiples	
		Multiply a whole	quotients to divide.		of 4.	
		number of up to	Recognize the relationship		dividend	
		four digits by	U		The number that	
		one-digit whole	between multiplication and			

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	number and	division.	is divided by
	multiply two		another number.
	digit number.	 Read aloud division 	
		problems.	divisor
	M04-A-T.2.1.3		The number by
	Divide up to	Draw an area model to show	which another
	four-digit	the relationship between	number is
	dividends by	multiplication and division.	divided.
	one-digit		
	divisors with	Draw an area model to	divisor
	answers written	divide.	The number you
		uivide.	
	as whole-	a Murita aut a actustion to a	divide by in a
	number	Write out a solution to a	division problem
	quotients and	division problem using partial	
	remainders.	quotients.	partial quotient A
			strategy used to
		 Tell how each part of an area 	divide multi-digit
		model relates to the dividend,	numbers; the
		divisor, partial quotients, and	quotients you
		quotient for a division problem.	get in each step
			are called
		Use the key vocabulary	"partial
		quotient, dividend, divisor, and	quotients". For
		remainder in discussions	example, the
		about division.	partial quotients
			for 2124 / 4 are
		How is mathematics used to	2000 /4 or 500,
		quantify, compare, represent,	100 /4 or 25,
		and model numbers?	and 24 / 4 or 6.
		How can mathematics support	division
		effective communication?	An operation
			used to separate
		How are relationships	a number of
		represented mathematically?	items into equal-
			sized groups.
		What does it mean to estimate	
		or analyze numerical	quotient
		quantities?	The result of
			division.
		When is it is appropriate to	
		estimate versus calculate?	remainder
			In division, the
			าก แพลเกท, แษ

			What makes a tool and/or strategy appropriate for a given task? How can patterns be used to describe relationships in mathematical situations.		amount left over that cannot be divided evenly by the divisor.	
Month(s): Februar	ry - March		Unit 4			
Numbers and Ope	rations: Fractions					
Big Idea	<u>Standard</u>	Eligible Content	Essential Questions & Lesson Essential Question	<u>Concepts</u>	Vocabulary	<u>Competencies</u>
 -Mathematical relationships among numbers can be represented, compared, and communicated. -Mathematical relationships can be represented as expressions, equations and inequalities in mathematical situations. -Numerical quantities, calculations, and measurements can be estimated or analyzed by using appropriate strategies and tools. 	CC.2.1.4.C.1 Extend the understanding of fractions to show equivalence and ordering. CC.2.1.4.C.2 Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. CC.2.1.4.C.3 Connect decimal notation to fractions, and compare decimal fractions (base 10 denominator,	M04.A-F.1.1.1 Recognize and generate equivalent fractions. M04.A-F.1.1.2 Compare two fractions with different numerators and different denominators (denominators (denominators limited to 2, 3, 4, 5, 6, 8, 10, 12, and 100) using the symbols >, <, =, and justify the conclusions. M04.A-F.2.1.1 Add and subtract	 Lesson 13 Understand the value of a fraction. Understand how a fraction model represents a fraction. Use models to demonstrate that two fractions are equivalent. Represent equivalent fractions using models. Multiply and divide to find equivalent fractions. Draw different fraction models to represent the value of the same fraction. Demonstrate that two fractions are equivalent using visual models. Communicate effectively with 	Fractions Decimals	benchmark fraction A common fraction that you might compare other fractions to; for example, 1/2 or 3/4. common denominator A number that is a common multiple of the denominators of two or more fractions. mixed number A number with a whole number part and a fractional part. tenths The parts	*Demonstrate an understanding of fraction equivalence. *Compare and order fractions. *Solve problems involving fractions and mixed numbers. *Use decimal notation for decimal fractions. *Compare decimal fractions. Compare decimals.
-Mathematical relationships	e.g., 19/100).	fractions with a common denominator	a partner about equivalent fractions.		formed when a whole is divided into ten equal	

among numbers	(denominators	Lesson 14	parts.
can be	limited to 2, 3,	Use symbols (>, <, =) to	paris.
represented,	4, 5, 6, 8, 10,	compare fractions with	hundredths
compared, and	12, and 100;	different numerators and	The parts
communicated.	answers do not	denominators.	formed when a
communicated.	need to be	denominators.	whole is divided
-Mathematical		Decognize that freations with	into one hundred
	simplified; and	 Recognize that fractions with different denominators and the 	
relationships can	no improper fractions as the		equal parts.
be represented as		same numerators represent	desimal
expressions,	final answer).	different values.	decimal
equations and		. Lles have showed for stiens to	A number
inequalities in	M04.A-F.2.1.2	Use benchmark fractions to	containing a
mathematical	Decompose a	compare fractions.	decimal point
situations.	fraction or a		that separates a
	mixed number	 Recognize that you can only 	whole from
-Numerical	into a sum of	compare two fractions when	fractional place
quantities,	fractions with	both refer to the same whole.	values (tenths,
calculations, and	the same		hundredths,
measurements	denominator	Write fraction comparison	thousandths,
can be estimated	(denominators	statements using the symbols	and so on).
or analyzed by	limited to 2, 3,	<, >,=.	
using appropriate	4, 5, 6, 8, 10,		decimal point
strategies and	12, and 100),	 Draw an area model to show 	The dot used in
tools.	recording the	that ⅔ > 2/4.	a decimal that
	decomposition		separates the
	by an equation.	 Orally explain how 	ones place from
	Justify	comparing both $\frac{3}{4}$ and $\frac{2}{5}$ to $\frac{1}{2}$	the tenths place.
	decompositions	can be used to determine if 3/4	
	(e.g., by using a	or 1⁄5 is greater.	fraction
	visual		A ratio of two
	fraction model).	Lesson 15:	values,
		 Understand addition as 	numbers, or
	M04.A-F.2.1.3	joining parts.	expressions. It is
	Add and		written in the
	subtract mixed	 Understand subtraction as 	form a}b, where
	numbers with a	separating parts.	b is not equal to
	common		0.
	denominator	 Extend their understanding 	
	(denominators	of addition and subtraction of	numerator
	limited to 2, 3,	whole numbers to addition and	The dividend in
	4, 5, 6, 8, 10,	subtraction of fractions.	a ratio or
	12, and 100; no		fraction.
	regrouping with	 Use fraction models to add 	
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	subtraction;	and subtract fractions with like	denominator
	fractions do not	denominators.	The divisor in a
	need to be		ratio or fraction.
	simplified; and	Create number line and area	
	no improper	models to represent adding or	equivalent
	fractions as the	subtracting fractions with like	fraction
	final answers).	denominators.	Two or more
			fractions that
	M04.A-F.2.1.4	 Compare different models for 	name the same
	Solve word	the same problem and	part of a whole
	problems	describe how they are the	or the same
	involving	same and different.	point on a
	addition and		number line
	subtraction of	Lesson 16:	
	fractions	Add fractions with like	unit fraction
	referring to the	denominators.	A fraction with a
	same whole or		numerator of 1.
	set and having	 Subtract fractions with like 	Other fractions
	like	denominators.	are built from
	denominators		unit fractions.
	(denominators	 Use fraction models, number 	
	limited to 2, 3,	lines, and equations to	compare
	4, 5, 6, 8, 10,	represent word problems	To decide if one
	12, and 100).		number is
		 Draw pictures or diagrams to 	greater than,
	M04.A-F.2.1.5	represent word problems	less than, or
	Multiply a whole	involving fraction addition and	equal to another
	number by a	subtraction.	number.
	unit fraction		
	(denominators	 Use fraction vocabulary, 	Product
	limited to 2, 3,	including numerator and	The result of
	4, 5, 6, 8, 10,	denominator, to explain how to	multiplication.
	12, and 100	add and subtract fractions with	
	and final	like denominators.	greater than/less
	answers do not		than
	need to be	 Orally define and use the key 	One number is
	simplified or	mathematical terms add,	larger than
	written as a	subtract, equal parts, fraction,	another number
	mixed number).	numerator, and denominator	or smaller than a
		when reasoning and arguing	number.
	M04.A-F.2.1.6	about fraction addition and	
	Multiply a whole	subtraction.	
	number by a		

		Muite and eaking a mustice at a		
	non-unit	Write and solve equations to		
	raction	represent word problems		
	denominators	involving fraction addition or		
	imited to 2, 3,	subtraction.		
	4, 5, 6, 8, 10,			
	12, and 100	Lesson 17:		
	and final	Break apart fractions greater		
	answers do not	than 1 into a fraction		
	need to be	equivalent to 1 and a fraction		
	simplified or	less than 1.		
	written as a			
n	nixed number).	Write a mixed number as a		
		fraction and write a fraction		
	M04.A-F.2.1.7	greater than 1 as a mixed		
	Solve word	number.		
	problems			
	nvolving	 Add and subtract mixed 		
	nultiplication of	numbers with like		
	a whole number	denominators.		
	by a fraction			
	denominators	• Write and solve an equation		
	imited to 2, 3,	with mixed numbers with like		
	4, 5, 6, 8, 10,	denominators in order to solve		
1	12, and 100).	a word problem.		
	M04.A-F.3.1.1	Rewrite mixed numbers as		
	Add two	fractions greater than 1 and		
	ractions with	rewrite fractions greater than 1		
	Respective	as mixed numbers.		
	denominators			
1	10 and 100.	Orally define the key		
		mathematical term mixed		
	M04.A-F.3.1.2	number and use it in context in		
	Jse decimal	discussions with a partner.		
	notation for			
	ractions with	• Draw pictures or diagrams to		
	denominators	represent word problems		
1	10 or 100.	involving fraction addition or		
		subtraction.		
	M04.A-F.3.1.3			
	Compare two	• Write and solve equations to		
	decimals to	represent word problems		
h	nundredths	involving fraction		

una in au tha a			1
using the	addition or subtraction.		
symbols >, =, or	L		
<, and justify	Lesson 18:		
the	Multiply a unit fraction		
conclusions.	(numerator of 1) by a whole		
	number.		
	• Multiply o frontion with o		
	• Multiply a fraction with a		
	numerator greater than 1 by a whole number.		
	Draw diagrams to model		
	multiplying a whole number		
	and a fraction.		
	Multiply a fraction by a whole		
	number using the strategy of		
	repeated addition.		
	•		
	 Listen to the arguments of 		
	others about the meaning of		
	multiplying a whole number		
	and a fraction and ask		
	questions to clarify.		
	Lesson 19:		
	Solve word problems that		
	involve multiplying a fraction		
	by a whole number.		
	Restate word problems		
	involving multiplication of a		
	whole number and a fraction.		
	Draw a diagram and write an		
	equation to represent and		
	solve a world problem		
	involving multiplication of a		
	whole number and a fraction.		
	Lesson 20:		
	Rewrite a fraction that has a		
	denominator of 10 as an		

equivalent fraction with a denominator of 100. • Rewrite a fraction that has a denominator of 100 as an equivalent fraction with a denominator of 10. • Explain the relationship between tenths and hundredths. • Add two fractions with denominators of 10 and 100. • State the relationship between tenths and hundredths. • Write a fraction with a denominator of 10 as an equivalent fraction with a denominator of 100. • Write a fraction with a denominator of 100. • Draw hundredths grids to represent word problems that involve adding fractions with denominators of 10 and 100. Lesson 21: Convert fractions into fractions, with denominators of 10 or 100. • Convert fractions into decimals with denominators of	
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fractions, with denominators of 10 or 100. • Convert fractions into	
10 or 100. Convert fractions into	
Convert fractions into	
	10 or 100.
decimals, with denominators	
	decimals, with denominators
of 10 or 100.	of 10 or 100.

	l	1
Write decimals as fractions		
with denominators of 10 or		
100.		
Draw a hundredths grid to		
represent a decimal number.		
Write a decimal number in a		
place value table.		
Read decimal numbers as		
fractions or mixed numbers,		
using "and" to read the		
decimal point.		
Locate decimal fractions on a		
number line.		
Lesson 22:		
Compare two decimals up to		
hundredths, using the $>$, $<$,		
and = symbols.		
Solve word problems		
involving comparisons of		
tenths and hundredths		
decimals.		
Compare decimal numbers		
and support comparison		
statements by referring to		
decimal grids and place		
value charts.		
Read aloud and write		
statements comparing		
decimals using <, >, and =		
symbols.		
Listen to the arguments of		
others about comparing		
decimals and ask questions to		
clarify or present a		
orally of procont a		

			differe	nt idea.			
			 Summin problem compared and management of the second and the second and	marize solve word ms that involve aring decimals. s mathematics used to fy, compare, represent, odel numbers? an mathematics support ve communication? re relationships ented mathematically? does it mean to estimate lyze numerical ties? makes a tool and/or gy appropriate for a			
Month(s): May			_	Unit 5			
Measurement and	Data						
Big Idea	<u>Standard</u>	Eligible Content		itial Questions & n Essential Question	<u>Concepts</u>	<u>Vocabulary</u>	<u>Competencies</u>
 Patterns exhibit relationships that can be extended, described, and generalized. Geometric relationships can be described, 	CC.2.3.4.A.1 Solve problems involving measurement and conversions from a larger unit to a smaller unit. CC.2.3.4.A.2	M04.C-G.1.1.1 Draw points, lines, line segments, rays, angles (right, acute, and obtuse), and perpendicular	measu measu • Conv a large	n 23: y the units of urement within a urement system. yert measurements from er unit to a smaller unit the same system.	Geometric Shapes and Figures Data Displays Measurement	<i>convert (units)</i> To write an equivalent measurement using a different unit. <i>metric system</i> The	*Draw and identify lines and angles. *Classify shapes by properties of their lines and angles.

analyzed, and	Classify two-	and parallel	Use a conversion table	measurement	*Solve problems
classified based	dimensional	lines. Identify	showing equivalent	system that	involving
on spatial	figures by	these in two-	measurements within the	measures length	measurements.
reasoning and/or	properties of their	dimensional	same system.	based on	
visualization.	lines and angles.	figures.	-	meters, liquid	*Convert larger
		-	 List the units of 	volume based	unit to smaller
-Numerical	CC.2.4.4.A.1	M04.D-M.1.1.1	measurement within a given	on liters,	unit.
quantities,	Solve problems	Know relative	system in order of size.	and mass based	
calculations, and	involving	sizes of		on grams.	*Translate one
measurements	measurement	measurement	 Draw diagrams to visually 	-	type of data
can be estimated	and	units within one	represent the relationship	customary	display to
or analyzed by	conversations	system of	between units of measure.	system	another.
using appropriate	from a larger unit	units including		The	
strategies and	to a smaller unit.	standard units	 Describe the multiplicative 	measurement	*Represent and
tools.		(in., ft, yd, mi;	relationship between different-	system	interpret data
	CC.2.4.4.A.2	oz., lb; and c,	sized units verbally or with	commonly used	involving
-Mathematical	Translate	pt, qt, gal),	equations.	in the United	fractions.
relations and	information from	metric units		States that	
functions can be	one type of data	(cm, m, km; g,	 Create tables to show 	measures length	
modeled through	display to	kg; and mL, L),	equivalent measurements.	in inches, feet,	
multiple	another.	and time (sec,		yards, and	
representations		min, hr, day,	Lesson 23A:	miles; liquid	
and analyzed to	CC.2.4.4.A.4	wk, mo, and	Identify and recognize the	volume in cups,	
raise and answer	Represent and	yr). within a	relationship between different	quarts, pints,	
questions.	interpret data	single system	units of time, including	and gallons; and	
	involving fractions	of	seconds, minutes, hours,	weight in ounces	
-Data can be	using information	measurement,	days, weeks, months, and	and pounds.	
modeled and	provided in a line	express	years.		
used to make	plot.	measurements		formula	
inferences.		in a larger unit	 Identify time (analog or 	A mathematical	
	CC.2.4.4.A.6	in terms of a	digital) as the number of	relationship that	
-Measurement	Measure angles	smaller unit. A	minutes before or after the	is expressed in	
attributes can be	and use	table of	hour.	the form of an	
quantified, and	properties of	equivalencies		equation; for	
estimated using	adjacent angles	will be	 Convert larger units of time 	example: a=lxw	
customary and	to solve	provided.	measurement to smaller units.		
noncustomary	problems.			perimeter	
units of measure.		M04.D-M.1.1.2	• Use a table of equivalencies	The distance	
		Use the four	to represent the relationship	around a two	
		operations	between units of time.	dimensional	
		to solve word		shape; the	
		problems	Use the four operations to	perimeter is	
		involving	solve word problems involving	equal to the sum	

distances,	intervals of time.	of the lengths of	
intervals of		the sides.	
time (such as	 Tell the time shown on an 		
elapsed time),	analog or digital clock as the	area	
liquid volumes,	number of minutes	The amount of	
masses of	before or after the hour.	space inside a	
objects;		closed two	
money,	 Describe the multiplicative 	dimensional	
including	relationship between different-	figure.	
problems	sized units of time verbally or		
involving	with equations.	angle	
simple fractions		A geometric	
or decimals;	 Draw a diagram, make a 	shape formed by	
and problems	table, or write an equation to	two rays, lines,	
that require	represent and solve a word	or line segments	
expressing	problem about time.	that meet at a	
measurements		common point.	
given in a	Lesson 24:		
larger unit in	Solve word problems involving	ray	
terms of a	money.	A straight row of	
smaller unit.		points that starts	
	Convert amounts of money in	at one point and	
M04.D-M.1.1.3	bills and coins to solve word	goes on forever	
Apply the area	problems about money.	in one direction.	
and perimeter			
formulas for	Describe the multiplicative	vertex	
rectangles in	relationship between different	The point where	
real-world and	sized units of money.	two rays, lines,	
mathematical	, ,	or line segments	
problems (may	Summarize word problems	meet to form an	
include finding	about money and determine	angle.	
a missing side	which operation to use.		
length). Whole		degree (°)	
numbers only.	Draw a diagram or write an	A unit used to	
	equations to represent and	measure angles;	
M04.D-M.1.1.4	solve a word problems about	there are 360° in	
Identify time	money.	a circle.	
(analog or			
digital) as the	Lesson 25:	right angle	
amount of	Convert larger units of	An angle that	
minutes before	measurement to smaller units	looks like a	
or after the	in order to solve word	square corner	
hour.	problems involving length,	and measures	

		00%
	liquid volume, or mass.	90°.
M04.D-M.2.1.1		
Make a line	Write and solve equations in	acute angle
plot to	order to solve word problems	An angle that
display a data	involving length, liquid volume,	measures more
set of	and mass.	than 0° but less
measurements		than 90°.
in fractions of a	Summarize word problems	
unit 1 e.g.,	about length, liquid volume, or	obtuse angle
intervals of 1/2,	mass and determine which	An angle that
1⁄4 or 1⁄8.	operation to use.	measures more
		than 90° but less
M04.D-M.2.1.2	Draw a diagram, make a table,	than 180°.
Solve problems	or write an equation to	
involving	represent and solve word	protractor
addition and	problems about length, liquid	A tool used to
subtraction of	volume, or mass.	measure angles.
fractions by		
using	Lesson 26:	compose
information	Use the formula for perimeter	To make by
presented	to solve problems.	combining parts.
in line plots		
(line plots must	Use the formula for area to	decompose
be labeled	solve problems.	To split up into
with common		parts.
denominators,	Summarize in writing how to	
such as 1/4, 2/4,	find the perimeter of a	line plot
³ / ₄).	rectangle using words or	A data display
	diagrams and equations.	that uses a
M04.D-M.2.1.3		number line to
Translate	Summarize in writing how to	show
information	find the area of a rectangle	measurement
from one type	using words or diagrams and	data
of data display	equations.	
to another		bar graph
(table, chart,	Restate word problems about	A type of data
bar graph or	area or perimeter and	display that
pictograph).	determine which to find.	represents a
		frequency
M04.D-M.3.1.1	Draw a diagram or write an	distribution. The
Measure	equation to represent and	class intervals
angles in	solve a word problem.	(buckets) in a
whole-number		bar graph
 whole-number		bar graph

degrees		represent
a protra	ctor. Make a line plot that displays	categorical data.
With the	aid of data in fractional units.	Bar graphs may
a protra	ctor,	either be vertical
sketch a	angles • Solve addition word	or horizontal.
of speci	•	
measure		scale
	 Solve subtraction word 	On a graph, the
M04.D-I		difference
Solve ad		between
and sub		numbers
problem		labeling the
find unk		graph
		graph
angles of diagram	-	tally abort
diagram		tally chart
world ar		A table or chart
mathem		in which tally
problem		marks (in
(angles		contrast to
be adjad	•••••••••••••••••••••••••••••••••••••••	numbers or
and non		pictures) are
overlapp	bing). bar graph, or line plot).	used to record
		data.
	Read data shown in a table,	
	chart, or graph.	Pictograph
		A chart that uses
	Describe how data shown in	pictures or
	one display is represented in a	drawings to
	different type of display.	represent
		quantities.
	Write labels on graphs.	quantition
		KEY
	Lesson 28	
	Recognize an angle as a	Elapsed time
		The time that
	geometric shape.	
	a Identify courts right and	has passed
	Identify acute, right, and	between a start
	obtuse angles.	time and an end
		time
	Recognize the relationship	
	between the measure of an	AM-morning
	angle and the part of a circle	The time from
	that the angle turns through.	midnight until

	noon
Use the key vocabulary	
terms angle, right angle, acute	PM
angle, and obtuse angle to	The time from
communicate precisely.	noon until
communicate precisely.	
	midnight
Describe a 360' turn as a full	
circle and a 180' turn as a half	liquid volume
circle.	The amount of
	space a liquid
Lesson 29:	takes up
Use a protractor to measure	
an angle.	mass
	The amount of
Drow on ongle of a spacific	
Draw an angle of a specific	matter in an
degree.	object.
	Measuring the
Use benchmark angle	mass of an
measures to estimate the	object is one
measure of an angle.	way to measure
5	how heavy it is.
Record measures of angles.	Units of mass
record measures of angles.	include the gram
Compare on angle to a right	
Compare an angle to a right	and kilogram
angle and a straight line.	
Define the key mathematical	
terms protractor, vertex, ray,	
and right angle and use the	
terms in discussion.	
Lesson 30	
Recognize that an angle can	
be split up into several smaller	
angles.	
Recognize that several smaller	
angles can be combined to	
form a larger angle.	
Add and subtract to find angle	
_	
measures.	

Use addition and subtraction	
to solve word problems about	
angle measures.	
List the smaller angles that	
compose a larger angle.	
List angle information given in	
diagrams and use addition and	
subtraction to find unknown	
angle measures.	
How can patterns be used to	
describe relationships in	
mathematical situations?	
How can recognizing repetition	
or regularity assist in solving	
problems more efficiently?	
How are spatial relationships,	
including shape and	
dimension, used to draw, construct, model, and	
represent real situations or	
solve problems?	
How can the application of the	
attributes of geometric shapes	
support mathematical	
reasoning and problem	
solving?	
How can geometric properties	
and theorems be used to	
describe, model, and analyze situations?	
What does it mean to estimate	
or analyze numerical	
quantities?	
What makes a tool and/or	

-Numerical	CC.2.4.4.A.1	M04.C-G.1.1.1	Lesson 31	Geometric	point	*Draw and
quantities,	Draw lines and	Draw points,	 Identify and draw points, 	Shapes and	A single location	identify lines and
calculations, and	angles and	lines, line	lines, line segments, rays, and	Figures	in space.	angles.
measurements	identify these in	segments, rays,	angles, and identify them in	Ũ		5
can be estimated	two-dimensional	angles (right,	two-dimensional figures.		line segment	*Classify shapes
or analyzed by	figures.	acute,	5		A straight row of	by properties of
using appropriate		and obtuse),	 Identify and draw parallel 		points that starts	their lines and
strategies and	CC.2.3.4.A.3	and	and perpendicular lines,		at one point and	angles.
tools.	Recognize	perpendicular	distinguish between the two,		ends at another;	5
	symmetric	and	and identify them in two-		a part of a line.	*Recognize
-Geometric	shapes and draw	parallel lines.	dimensional figures.			symmetric
relationships can	lines of	Identify these in			line	shapes and
be described,	symmetry.	two-	 Identify points, lines, line 		A straight row of	draw lines of
analyzed, and		dimensional	segments, rays, and angles in		points that goes	symmetry.
classified based		figures.	two- dimensional figures.		on forever in	
on spatial					both directions.	*Measure and
reasoning and/or		M04.C-G.1.1.2	 Draw points, lines, line 			draw angles.
visualization.		Classify two-	segments, rays, and angles.		ray	_
		dimensional			A straight row of	*Apply area and
		figures based	 Identify parallel and 		points that starts	perimeter
		on the	perpendicular lines in two-		at one point and	formulas.
		presence or	dimensional figures.		goes on forever	
		absence of			in one direction.	
		parallel or	 Use the terms point, line 			
		perpendicular	segment, line, ray, parallel,		angle	
		lines or the	and perpendicular to		A geometric	
		presence or	communicate effectively.		shape formed by	
		absence of			two rays, lines,	
		angles of a	Lesson 32		or line segments	
		specified size.	Sort two-dimensional figures		that meet at a	
		Recognize right	based on parallel or		common point.	
		triangles as a	perpendicular sides and on			
		category, and	acute, obtuse, or right angles.		parallel lines	
		identify right			Two lines that	
		triangles.	 Recognize that triangles can 		are always the	
			be classified based on the		same distance	
		M04.C-G.1.1.3	lengths of their sides		apart and will	
		Recognize a	(isosceles, equilateral,		never meet.	
		line of	scalene).			
		symmetry for a			perpendicular	
		two-	 Name a triangle based on 		lines	
		dimensional	the kind of angles it has		Two lines that	
		figure as a line	(acute, obtuse, right).		cross at a 90°	

Г			· · · · · · · · · · · · · · · · · · ·
	across the		angle.
	figure such that	 Describe two-dimensional 	
	the figure can	figures by using terms such as	polygon
	be folded along	parallel or perpendicular sides,	A two-
	the line into	acute, obtuse or right angles,	dimensional
	mirroring parts.	and equal length.	closed shape
	Identify line		made with three
	symmetric	 Use the key vocabulary 	or more line
	figures and	terms equilateral, isosceles,	segments.
	draw lines of	scalene, acute, and triangle in	5
	symmetry (up	discussions.	rectangle
	to two lines of		A quadrilateral
	symmetry).	Tell how to sort two-	with four right
		dimensional figures into	angles; opposite
		groups based on their	sides of a
		properties.	rectangle are the
		properties.	•
		What does it mean to actimate	same length.
		What does it mean to estimate	
		or analyze numerical	equilateral
		quantities?	triangle
			A triangle that
		When is it is appropriate to	has all three
		estimate versus calculate?	sides the same
			length.
		What makes a tool and/or	
		strategy appropriate for a	isosceles
		given task?	triangle
			A triangle that
		Why does "what" we measure	has at least two
		influence "how" we measure?	sides the same
			length.
		In what ways are the	
		mathematical attributes of	scalene triangle
		objects or processes	A triangle that
		measured, calculated and/or	has no sides the
		interpreted?	same length.
		How precise do	acute triangle
		measurements and	A triangle that
		calculations need to be?	has three acute
		Longon 22	angles.
		Lesson 33	right triangle
		Recognize lines of symmetry	right triangle

in two-dimensional figures.	A triangle that
	has one right
Draw lines of symmetry in two-	angle.
dimensional figures.	
	obtuse triangle
Draw a line of symmetry.	A triangle that
	has one obtuse
Listen to the arguments of	angle.
others about lines of symmetry	angion
and offer reasons for agreeing	line of symmetry
or disagreeing.	A line that
or disagreening.	divides a shape
How can patterna be used to	into two mirror
How can patterns be used to	
describe relationships in	images.
mathematical situations?	line composit
	line segment
How can recognizing repetition	A straight row of
or regularity assist in solving	points that starts
problems more efficiently?	at one point and
	ends at another
How are spatial relationships,	point, or, a part
including shape and	of a line
dimension, used to draw,	
construct, model, and	right angle
represent real situations or	An angle that
solve problems?	forms a square
	corner and
How can the application of the	measures 90
attributes of geometric shapes	degrees
support mathematical	
reasoning and problem	acute angle
solving?	An angle with a
	measure less
How can geometric properties	than 90 degrees
and theorems be used to	
describe, model, and analyze	obtuse angle
situations?	An angle that
	measures more
	than 90 degrees
	but less than
	180 degrees
	guadrilateral
	4000000

		A polygon with exactly four sides and four angles
		parallelogram A quadrilateral with opposite sides parallel and equal in length
		<i>rhombus</i> A parallelogram with all four sides the same length
		<i>trapezoid</i> A type of quadrilateral. A trapezoid always has a pair of parallel sides