

Whole Number Operations 5.4 Number and operations. The student develops and uses strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy.

- 5.1A display a sense of wonder about mathematical relationships *
- 5.1B respond to the beauty, harmony, proportion, radiance, and wholeness present in mathematics *
- 5.1C show interest in how the mental processes evident within mathematics help us with the development of natural virtues *
- 5.1D exhibit appreciation for the process of discovering meanings and truths and not just arriving at an answer *

	Loarr	ning Process Standards (Tools to Know)	Unit	CHECKPOINT			
ı	Lean	ing Frocess standards (100is 10 know)	Unit	1	2	3	
ſ	5.2A	determine math needed to solve problems					
	5.2B	use problem-solving models					
	5.2C	exhibit joy at solving difficult mathematical problems *					

Content		Unit	CI	HECKPOII	NT
Coni	Content		1	2	3
All Op	erations of Whole Numbers				
5.4A	represent and solve multi-step problems involving the four operations with whole numbers using equations with a letter standing for the unknown quantity				
5.4A.1	estimate to determine solutions to mathematical and real-world problems involving addition and subtraction, multiplication, or division				
5.4A.2	multiply with fluency a three-digit number by a two-digit number using the standard algorithm				
5.4A.3	solve with proficiency for quotients of up to a four-digit dividend by a two-digit divisor using strategies and the standard algorithm				
Algebi	raic Representations				
5.4B	simplify numerical expressions that do not involve exponents, including up to two levels of grouping				
5.4B.1	describe the meaning of parentheses and brackets in a numeric expression				

Logr	ning Dragge Standards (Maya to Shaya)	Heit	CHECKPOINT			
Learning Process Standards (Ways to Show)	Unit	1	2	3		
5.2D	create representations					
5.2E	analyze information					
5.2F	develop lines of inquiry to determine truth or falsehood *					



Decim	nals	Unit		IECKPOII	NT
5.3 Pl aı 5.4 N	lace value. The student represents, compares, and orders positive rational numbers and understand relationships as related to place value. umber and operations. The student develops and uses strategies and methods for ositive rational number computations in order to solve problems with efficiency and occuracy.		1	2	3
Cath	olic Identity: Integration of Our Faith				
5.1A 5.1B 5.1C 5.1D	display a sense of wonder about mathematical relationships * respond to the beauty, harmony, proportion, radiance, and wholeness present in mathematics show interest in how the mental processes evident within mathematics help us with the develo exhibit appreciation for the process of discovering meanings and truths and not just arriving a	pment of r		tues *	
Learr	ning Process Standards (Tools to Know)	Unit	CH 1	IECKPOII 2	NT 3
5.2A 5.2B 5.2C	determine math needed to solve problems use problem-solving models exhibit joy at solving difficult mathematical problems *				
Cont	ent	Unit	CH 1	IECKPOII 2	NT 3
Compa	aring Decimals				
5.3A	compare and order two decimals to thousandths and represent comparisons using the symbols >, <, or =				
5.3A.1	represent the value of the digit in decimals through the thousandths using expanded notation and numerals				
Δdditi	on/Subtraction of Decimals				
5.4C	add and subtract positive decimals fluently				
5.4C.1	round decimals to tenths or hundredths				
Multin	Dication of Decimals				
5.4D	solve for products of decimals to the hundredths, including situations involving money, using strategies based on place-value understandings, properties of operations, and the relationship to the multiplication of whole numbers				
5.4D.1	represent multiplication of decimals with products to the hundredths using objects and pictorial models, including area models				
Divisio	on of Decimals				
5.4E	solve for quotients of decimals to the hundredths, up to four-digit dividends and two-digit whole number divisors, using strategies and algorithms, including the standard algorithm				
5.4E.1	represent quotients of decimals to the hundredths, up to four-digit dividends and two-digit whole number divisors, using objects and pictorial models, including area models				

Logr	ning Process Standards (Ways to Show)	Unit	CHECKPOINT			
Lean	Learning Frocess Standards (ways to snow)	Onit	1	2	3	
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Fractions	Unit	CHECKPOINT			
Fractions		Unit	1	2	3
5.4 Number and operations. The student developositive rational number computations in order	_				
accuracy.	,				

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Learning Process Standards (Tools to Know)		Unit	1	2	3		
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Cont	Content		CI	CHECKPOINT			
Cont	ent	Unit	1	2	3		
Additi	on/Subtraction of Fractions						
5.5F	add and subtract fractions fluently						
5.4F.1	represent and solve addition and subtraction of fractions with unequal denominators						
Multip	olication of Fractions						
5.4G	represent and solve multiplication of a whole number and a fraction						
5.4G.1	identify prime and composite numbers						
Divisio	on of Fractions						
5.4H	divide whole numbers by unit fractions and unit fractions by whole numbers						
5.4H.1	represent division of a unit fraction by a whole number and the division of a whole number by a unit fraction such as $1/3 \div 7$ and $7 \div 1/3$ using objects and pictorial models, including area models						

Logr	ning Process Standards (Mays to Show)	Unit	CHECKPOINT			
Learning Process Standards (Ways to Show)		Unit	1	2	3	
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Graphing on Coordinate Plane	Unit CHECKPOINT 1 2 3	TV		
Graphing on Coordinate Plane		1	2	3
5.6 Geometry and measurement. The student graphs and interprets points, expressions,				
and equations on a coordinate plane.				

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Loo	wing Brooms Standards (Tools to Know)	Unit	CHECKPOINT		
Leal	rning Process Standards (Tools to Know)	Unit	1	2	3
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Con	Content		Cl	HECKPOIN	NT
Con			1	2	3
Coordinate Plane					
5.6A	graph in the first quadrant of the coordinate plane ordered pairs of numbers arising from mathematical and real-world problems, including those generated by number patterns or found in an input-output table				
5.6A.1	describe the process for graphing ordered pairs of numbers in the first quadrant of the coordinate plane				
Linear	Representations				
5.6B	generate a numerical pattern when given a rule in the form $y = ax$ or $y = x + a$ and graph				
5.6B.1	recognize the difference between additive and multiplicative numerical patterns given in a table or graph				

Learning Process Standards (Ways to Show)		Unit	CH	ECKPOINT	
Lean	ing Frocess standards (ways to snow)	Unit	1	2	3
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Measurement	Unit	CHECKPOINT			
	Oilit	1	2	3	
5.6 Geometry and measurement. The student solves problems involving perimeter, area and volume and converts within a unit of measurement.					

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Cont	ent	Unit	C	HECKPOII	NT
COIII	GIII	Onic	1	2	3
Perim	eter and Area				
5.6C	represent and solve problems related to perimeter and area				
Volum	ne e				
5.6D	represent and solve problems related to volume including the relationship to perimeter and area				
5.6D.1	recognize a cube with side length of one unit as a unit cube having one cubic unit of volume and the volume of a three-dimensional figure as the number of unit cubes (<i>n</i> cubic units) needed to fill it with no gaps or overlaps if possible				
5.6D.2	determine the volume of a rectangular prism with whole number side lengths in problems related to the number of layers times the number of unit cubes in the area of the base				
5.6D.3	use concrete objects and pictorial models to develop the formulas for the volume of a rectangular prism, including the special form for a cube $(V = I \times w \times h, V = s \times s \times s)$ and $V = Bh)$				
Conve	rsions				
5.6E	solve problems by calculating conversions within a measurement system, customary or metric				

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Data Analysis	Unit	Cŀ	HECKPOINT	
Data Analysis	Unit	1	2	3
5.7 Data analysis. The student solves problems by collecting, organizing, displaying, and interpreting data.				

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Lean	ning Process Standards (100is to know)	Unit	1	2	3
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Cont	lant	Unit	CH	IECKPOI	VT
Com	leni	Onit	1	2	3
Using	Data to Solve Problems				
5.7A	solve one- and two-step problems using data from a frequency table, dot plot, bar graph, stem-and-leaf plot, or scatterplot				
5.7A.1	represent categorical data with bar graphs or frequency tables and numerical data, including data sets of measurements in fractions or decimals, with dot plots or stem-and-leaf plots				
5.7A.2	represent discrete paired data on a scatterplot				

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