

# Academic Vocabulary

CONTENT BUILDER FOR THE PLC

MATH GRADE 5



# Representation and Comparison of Whole Numbers and Decimals

**Number and operations.** The student applies mathematical process standards to represent, compare, and order positive rational numbers and understand relationships as related to place value.

	important words for concept development			
subcluster	standards	new to grade level	previously introduced	
Representation	5.2(A)	thousandths	billion expanded notation* hundreds/hundredths million place value tens/tenths thousands	
Comparison	5.2(B)	thousandths	< (less than)* = (equal to)* > (greater than)* greatest to least inequality* least to greatest*	

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#### **Whole Number Operations**

- **Number and operations.** The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy.
- **5.4 Algebraic reasoning.** The student applies mathematical process standards to develop concepts of expressions and equations.

		important words for concept development			
subcluster	standards	new to grade level		previously introduce	d
Estimation	5.3(A)			compatible number estimate* estimation language (abou close to, approximately round	
Addition/ Subtraction	5.3(K)			difference sum	
Multiplication/ Division	5.3(B), 5.3(C)			dividend divisible* divisor	factor product* quotient
All Operations	5.4(B)			unknown quantity/variable	
Numerical Expressions	5.4(E), 5.4(F)	bracket equivalent expression* order of operations	parentheses* simplify		

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#### **Decimals Operations**

- **5.2 Number and operations.** The student applies mathematical process standards to represent, compare, and order positive rational numbers and understand relationships as related to place value.
- **Number and operations.** The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy.

	important words for concept development				
subcluster	standards	new to grade level	previously introduced		
Estimation	5.2(C), 5.3(A)		compatible number estimate* estimation language (about, a little more/less than, close to, approximately) round*		
Addition/ Subtraction	5.3(K)		difference sum		
Multiplication	5.3(D), 5.3(E)		(area) model* factor product		
Division	5.3(F), 5.3(G)		(area) model* dividend* divisor quotient*		

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#### **All Operations with Fractions**

- **Number and operations.** The student applies mathematical process standards to develop and use strategies and methods for positive rational number computations in order to solve problems with efficiency and accuracy.
- **5.4 Algebraic reasoning.** The student applies mathematical process standards to develop concepts of expressions and equations.

	important words for concept development				
subcluster	standards	new to grade level		previously introduce	d
Estimation	5.3(A)			benchmark fraction estimate* estimation language (about close to, approximately	
Addition/ Subtraction	5.3(H), 5.3(K), 5.4(A)	common denominator composite number* improper fraction	mixed number prime number*	denominator difference equal parts/equal shares equivalent fraction	factor pairs* numerator simplified form sum
Multiplication	5.3(I)			(area) model* factor product	
Division	5.3(J), 5.3(L)			(area) model* dividend division divisor	equal parts*/equal shares quotient unit fraction

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## **Graphing on Coordinate Plane**

- **5.4 Algebraic reasoning.** The student applies mathematical process standards to develop concepts of expressions and equations.
- **5.8 Geometry and measurement.** The student applies mathematical process standards to identify locations on a coordinate plane.

		important words for concept development			
subcluster	standards	new to grade level		previously introduced	d
Coordinate Plane	5.8(A), 5.8(B), 5.8(C)	axis/axes coordinate* coordinate plane/ grid*/graph* ordered pair* origin (0, 0)* point* quadrant	to the right/up from   (directional language/   translation from given   points)*  x-axis*  x-coordinate  y-axis*  y-coordinate	input-output table north/east*/south*/west* vertex/vertices*	
Graphing Numerical Patterns	5.4(C), 5.4(D)	x-coordinate* x-values* y-coordinate* y-values*		additive pattern* graph* input-output table multiplicative pattern*	numerical pattern* rule* table*

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#### **Geometry and Measurement**

- **5.4 Algebraic reasoning.** The student applies mathematical process standards to develop concepts of expressions and equations.
- **5.5 Geometry and measurement.** The student applies mathematical process standards to classify two-dimensional figures by attributes and properties.
- 5.6 Geometry and measurement. The student applies mathematical process standards to understand, recognize, and quantify volume.
- **5.7 Geometry and measurement.** The student applies mathematical process standards to select appropriate units, strategies, and tools to solve problems involving measurement.

		important words for concept development			
subcluster	standards	new to grade level		previously introduc	ced
Two-Dimensional Relationships	5.5(A)	isosceles*, equilateral*, scalene* triangle		congruent parallel/perpendicular li polygon*/rhombus*/pe parallelogram*/recta right*/obtuse*/acute* a vertex/vertices	ntagon*/square*/quadrilateral*/ angle*/trapezoid*
Perimeter/Area/ Volume	5.4(G), 5.4(H), 5.6(A), 5.6(B)	area of the base*  cubic unit  formulas (volume):  • V=   x w x h  • V = s x s x s (cube)  • V = Bh	height* number of layers volume*	area* dimensions* edge*/side length length*	perimeter* rectangular prism* square unit* width*
Conversions	5.7(A)				p/fluid ounce; ton/pound/ounce) r/centimeter/millimeter;

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## **Data Analysis**

**5.9 Data analysis.** The student applies mathematical process standards to solve problems by collecting, organizing, displaying, and interpreting data.

		important words for concept development			
subcluster	standards	new to grade level	previously introduc	ed	
Representation	5.9(A), 5.9(B)	line plot* scatterplot*	bar graph* data* dot plot*	frequency table scaled intervals stem-and-leaf plot*	
Interpretation	5.9(C)	scatterplot	comparative language (m equal to, sum*/difference greatest*) joining/separating/compa	ence*, least*/most*,	

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# Personal Financial Literacy

**5.10 Personal financial literacy.** The student applies mathematical process standards to manage one's financial resources effectively for lifetime financial security.

		important words for concept development		
subcluster	standards	new to grade level		previously introduced
Budgets	5.10(C), 5.10(D), 5.10(E), 5.10(F)	balanced budget* budget* check credit card	debit card electronic payment financial records net income*	expense* income*
Taxes	5.10(A), 5.10(B)	deduction* employer/employee gross income* income tax* net income*	payroll tax* property tax* sales tax* wages*	retail cost/product*

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