

HPS — MATH VOCABULARY — GRADE 4

Vocabulary lists identify terms *that teachers need to use within their instructional sequence and encourage students to utilize when communicating mathematically*

Third Grade	Process			Fourth Grade ←Continue vocabulary use from previous years→			Process			Fifth Grade
	about exact logical reasoning make a table work backwards about	act it out find a pattern make a chart operation write a number sentence act it out	draw a picture guess and check make a list reasonable draw a picture	and equivalent fractions front end place value standard form whole number	compensation exact number hundredths round tenth word form	decimal point expanded word form period short word form variable	front end	thousandths	millions	
	Numbers and Operations			Numbers and Operations			Numbers and operations			
	addition-addend addition-count on addition-make a ten addition-sum divide division- remainder fraction-decimal point fraction-parts of a set give change multiply-factors multiply-multiplication multiply-repeated addition place value-equal place value-greatest place value-less than place value-standard form subtract-count up subtract-missing addend	addition-all together addition-doubles addition-operation amount division-divisor fraction fraction- denominator fraction-parts of a whole multiply-array multiply-groups of multiply-order of factors multiply-square number place value-expanded form place value-hundreds place value-order place value-thousands subtract-difference subtract-regrouping	addition-compare addition-fact family addition-problem solving combination division-quotient fraction-decimal fraction- numerator fraction- whole multiply-estimation multiply-missing factors multiply-product place value-compare place value-greater than place value-least place value-ordinal subtract-count back subtract-mental math subtract-subtraction	adding/subtracting basic facts commutative property denominator divisibility rule equivalent fractions identity input mixed numbers number and operation simplest form	associative clustering compatible number distributive property divisible factor improper fractions inverse operation multiple numerator zero property	associative property common denominator composite dividend divisor fractions in all mental math multiplication/division output	common factor greatest common multiple least common denominator numbers and operations	commutative	identity property lowest form	

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Third Grade	Algebra			Fourth Grade ←Continue vocabulary use from previous years→			Algebra			Fifth Grade
	algebraic	missing number		algebraic concepts formula input property of zero	associative property graphing ordered pairs output whole numbers	commutative property identity property property of one	distributive square number	power of tens	prime factorization	
	Geometry			Geometry			Geometry			
	area line plane figure right angle	endpoint line segment quadrilaterals square units	geo board pentagon ray symmetric	2-dimensional beside horizontal open and closed plane radius square pyramid triangular prism	3-dimensional circumference intersecting lines parallel lines point reflection straight angle triangular pyramid	acute angle diameter obtuse angle perpendicular lines quadrilateral rotation translation vertex	acute triangle bisect compass isosceles triangle prism right triangle vertices	angle bisector center degree obtuse triangle protractor rotate	base chord equilateral triangle open/closed figures regular polygon scalene triangle	
	Measurement			Measurement			Measurement			
	degrees Celsius (°C) gallon (gal) mile (mi)	degrees Fahrenheit (F) kilometer (km) milliliter (ml)	feet (ft) measurement ounce (oz)	base customary units gram metric system milliliter perimeter ton	century decade leap year miles millimeter tablespoon	cubic units gallon mass milligram ounces teaspoon	formula	year		

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Third Grade	Statistics			Fourth Grade ←Continue vocabulary use from previous years→			Statistics			Fifth Grade
	certain grid less likely ordered pair tally chart	column impossible missing number outcomes	equally likely key most likely row	axis line graph more likely	double graph median range	graphing mode stem-and-leaf	average fair game mean ratio	coordinates frequency table percent scale	equivalent ratio line plot rate and unit price tree diagram	
	Patterns			Patterns			Patterns			
	guess my rule			equivalent ratio odd and even numbers tables	graphs patterns unit pricing	number lines percents	cubed prime factorization	irrational numbers rational numbers	powers of ten square numbers	