

MCA-III Math Vocabulary & Notation from MCA-III DRAFT Test Specifications

(Clustered in sets of related words)

	GRADE 3	GRADE 4	GRADE 5	GRADE 6	GRADE 7	GRADE 8
NUMBER AND OPERATION	<i>..... Students should also know vocabulary from previous grade levels.</i>					
	equal	equivalent				
	digits	represent				
	value		place value			
	compare, order	Notation: <, >		Notation: <, =, >	Notation: <, >, =, ≤, ≥	
	fewer, more					
	less, least			is less than		
	greater, greatest			is greater than	inverse, inversely, opposite	
	nearest, closest	operation		exponent, power, base		Notation: $-x^2$, $(-x)^2$, -3^2 , $(-3)^2$
	plot, locate, point	solve		coordinate grid ordered pair, plot	coordinate, origin	
	add, sum	strategy		x-axis, y-axis, horizontal axis, vertical axis		
	subtract, difference					
	multiply, product	factor		prime factor/factorization Notation: $3 \bullet 4$, $3(4)$		
	divide	quotient, divisor, dividend	remainder	greatest common factor, least common multiple	absolute value	square root Notation: $\sqrt{2}$
	result		Notation: \div , fraction bar	integer	Notation: π	irrational
	estimate, round			rational number		radical
				reciprocal		consecutive
						real
	fraction	decimal		percent	terminating , repeating	significant digits
		numerator, denominator		Notation: 25%, $\frac{1}{4}$, 0.25, 0.33	Simple interest, compound interest	scientific notation
	improper fraction		ratio, rate, unit rate, per	proportion, proportional	standard form	
	mixed number		Notation: $\frac{1}{4}$, 1 to 4, 1:4, 1 out of 4, 25%			

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ALGEBRA Students should also know vocabulary from previous grade levels.					
	number sentence		expression	evaluate		square root
	equation		inequality	simplify		arithmetic sequence
	represent			Notation: $<$, $>$, $=$		geometric sequence
	value			Notation: $3x$, xy , $3 \cdot 4$, $3(4)$		progression
	rule			translate		n^{th} term
	input, output			reasonable		Notation: ± 3
		variable		order of operations	substitute	independent, dependent
		Notation: variables, boxes or blanks may be used for unknowns		function		linear, linear function non-linear function
						constant, coefficient
						common difference, common ratio
			ordered pair graph	coordinate grid	origin slope	intercept slope-intercept form
					proportion, proportional inverse, inversely	point-slope form standard form
						Notation: $f(x) = mx + b$, $f(x) = ab^x$
						exponential
						system of equations
						undefined
						infinite
						identical , intersecting
						identity property
					associative property	
					commutative property	
					distributive property	

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GEOMETRY AND MEASUREMENT Students should also know vocabulary from previous grade levels.					
	length, width			Interior, exterior		
	increase, decrease			Notation: side(hash) marks for congruency	Notation: \sim , \cong , \overline{FG} , FG	Notation: congruent angle marks
	greatest, least, fewest, most			diagonal	similar	
	parallel	vertical		intersecting, adjacent		Pythagorean Theorem
	perpendicular	horizontal	height	hypotenuse, leg		
	side, sides		edge	straight, vertical		
	angle, angles right angle		face, base	complementary, supplementary	corresponding	
	vertices	vertex		Notation: $\angle A$, $m\angle A$, $\triangle ABC$		
	Notation: right angle symbol (square in corner)	Notation: 90° or angle arc	formula	Notation: 3 square centimeters, 3 cm sq, 3cm^2	circumference, radius, diameter Notation: π	
	perimeter	area	volume, surface area, net		lateral area	
	tool, ruler, yardstick, meter stick, tape measure, thermometer	transformation, congruent		capacity	scale factor	
	unit	rotation, clockwise, counterclockwise		customary, metric	Notation: J, J'	
	a.m., p.m.	translation, reflection, image	triangular, rectangular		Notation: $(x,y) \rightarrow (x+3, y-2)$	
	Notation: \$5, \$0.75, 75¢	symmetry	three-dimensional		conversion	
	temperature	quadrilateral	cube			
	degrees	parallelogram	prism			
	Notation: 15°F , 35°C	rhombus, kite	pyramid			
	figure	square, rectangle	cone			
		trapezoid	cylinder			

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DATA ANALYSIS and PROBABILITY		<i>..... Students should also know vocabulary from previous grade levels.</i>				
	data					
	represent	survey				
	pictograph	timeline	double-bar graph		histogram	scatter plot
	tally chart	Venn diagram	line graph		stem-and-leaf plot	line of best fit
	bar graph				circle graph	correlation
	line plot					
	table		mean		frequency table	
			median			
	title		range		outlier	
	label		minimum			
	key		maximum			
				probability		
				ratio		
				outcome		
				frequency		
				relative frequency		
				predict		
				likely, unlikely		
				certain, impossible		
				tree diagram		
				event		
				random		
			experimental			
			theoretical			
			sample space			
			combinations			