

Essential Mathematics Vocabulary/Symbols

Kindergarten	1st	2nd	3rd	4th
ordinal	place value positions	unit fractions	1/3	fractions
numeral	whole	$\frac{1}{4}$	1/6	denominators
1-to-1 correspondence	$\frac{1}{2}$	skip count	1/8	draw
concrete objects	compare and order	regrouping	multiplication	multiples
addition	$>, <, =$	pictorial representation symbols	division	reasonable answers
subtraction	recall	illustrate	repeated addition and subtraction	patterns as arithmetic and geometric sequences
attributes	estimate	addend	decimals w/ \$ as model	solution
unequal	verify	missing operations	number charts	equation
greater than	pictorial symbols	missing numbers	charts	$+, -, =, \times, <, > :-$
less than	equality	$+, -, =$	variables	
pennies	label	Temperature	$+, -, =, \times, <, >$	convert
nickels	extend	coins	volume	customary system
dimes	repeating patterns	bills	capacity	perimeter
days of the week	manipulatives	half hour	degree of accuracy	polygons
circles	length	quarter hour	analog	A.M. and P.M.
triangles	weight	elapsed time	digital	52 weeks = 1 yr
squares	non-standard measurement	12 mos. = 1 year	60 min = 1 hour	365 days = 1 year
rectangles	months of year	7 days = 1 wk	symmetrical	
orientation	tally marks	24 hrs. = 1 day	transformation motion	days in a month

		2-dimensional shapes congruent similar designs w/ line of symmetry sphere cube tables pictographs bar graphs informal probability	horizontal vertical oblique quantifiers – all, some, none data collection frequency tables number lines certain likely unlikely impossible	angles such as straight, right, obtuse, acute first quadrant grid vertices edges faces points line segments rays line plots range central tendency mode median predictions
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5th	6th	7th	8th	9-12
whole numbers	%	fractional %	% > 100	radical
decimals	equivalent expressions	rational numbers	powers	exponential
improper fractions	estimation	absolute value	perfect squares	scalar
mixed numbers	order of operations	round significant digit	square roots	matrices
integers	divisibility	number theory	real numbers	real number properties
triangular numbers	input/output table	prime numbers	identity property	factor 1 st and 2 nd degree polynomials
perfect squares	formulas	composite numbers	inverse property	domain
inequality	algebraic expressions	factors	absolute value	range
inverse operations	weight/mass	distributive property	binomials	quadratic
mental math	precise measurement	commutative property	functions	discrete methods
guess& check	circumference	associative property	precision	right triangle trigonometry
area	unit cost	ordered pairs	tolerance	transversal
quadrilaterals	protractor	visual representation	interior angles	inductive
congruency	irregular quadrilaterals	greatest possible error	inter-quartile	deductive
similarity	central angles	volume	range	census
dilation	scale drawings	surface area	combinations	bias
planes	four quadrants	simple interest	odds	normal distribution
parallel lines	prism		inferences	
intersecting lines	slope		interpolation	
perpendicular lines			extrapolation	
right triangle				Fundamental Counting Principle
acute triangle				
obtuse triangle				

scalene triangle	pitch	irregular polygons		
equilateral triangle	angle of inclination	reflection		
isosceles triangle	complementary	rotation		
venn diagram	supplementary	midpoint		
stem & leaf plots	Triangle Sum Theorem	bisectors		
histograms	compass	Pythagorean Theorem		
mean	straight edge	hypotenuse		
	counterexample	permutations		
	circle graph	theoretical probability		
	scatter plots	interpolate		
	sample spaces	extrapolate		
	tree diagrams			