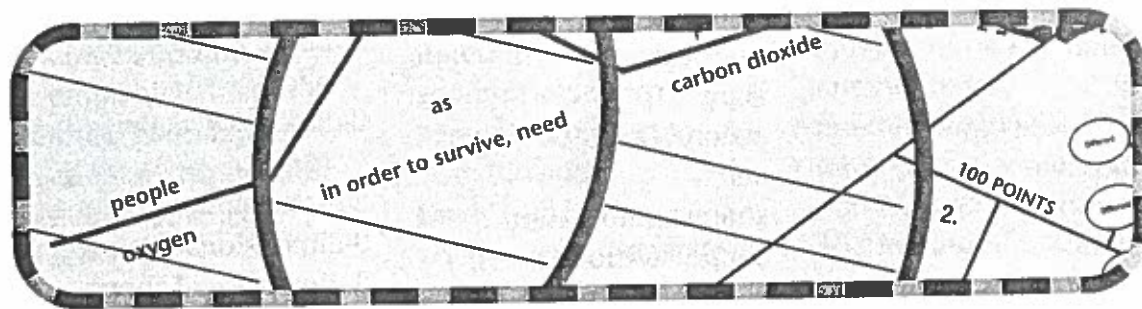


B | Academic Vocabulary Word Lists



In this section, 7,923 vocabulary terms are listed for 11 subject areas:

- | | | |
|--------------------------|--------------|-----------------------|
| 1. Mathematics | 5. Geography | 9. Physical education |
| 2. Science | 6. Civics | 10. The Arts |
| 3. English language arts | 7. Economics | 11. Technology |
| 4. History | 8. Health | |

The terms for all subject areas are reported at four levels:

Level 1: grades K–2

Level 2: grades 3–5

Level 3: grades 6–8

Level 4: grades 9–12

Vocabulary Terms

Readers should note that proper names are listed alphabetically by first name as opposed to last name. Also, some entries are alphabetized on the basis of the article *the*.

Mathematics | Word List

Level 1

above
addition
area
behind
below
between
calendar
cardinal number
chance
circle
clock
coin
corner
day
decreasing pattern
difference
direction
distance
estimate answer
foot (measurement)
graph
greater than
grouping
guess and check
height
hour
in front
inch
increasing pattern
inside
left
length
less than
lists
location
measuring cup
minute
model

money
near
number
number line
numeral
numeric pattern
ordinal number
orientation
outcome
outside
pattern
pattern extension
pound
prediction
rectangle
right
second (time)
set
shape combination
shape division
shape pattern
similarity
size
sound pattern
square
standard measures of
time
standard measures of
weight
subtraction
sum
table
temperature
temperature estimation
temperature
measurement
time interval
triangle
under
volume

week
whole number
width
year
zero

Level 2

2-dimensional shape
2-dimensional shape
combination
2-dimensional shape
decomposition
2-dimensional shape
slide
2-dimensional shape
turn
2-dimensional space
3-dimensional shape
3-dimensional shape
combination
acute angle
addend
addition algorithm
angle
angle measurement tool
angle unit
area
associative property
bar graph
basic number
combinations
capacity
centimeter
certainty (probability)
circumference
classes of triangles
cluster
common denominator

Level 2 (cont.)

common fractions	event likelihood	measures of central tendency
commutative property	expanded notation	measures of height
conservation of area	extreme value	measures of length
constant	faces of a shape	measures of width
corresponding angles	factors	median
corresponding sides	flip transformation	meter
cube	fraction	metric system
cylinder	fraction addition	midpoint
data	fraction division	mixed numbers
data cluster	fraction multiplication	mode
data collection method	fraction subtraction	multiple
decimal	fractions of different size	multiplication
decimal addition	front-end digits	negative number
decimal division	front-end estimation	number of faces
decimal estimation	function	number pairs
decimal multiplication	geometric pattern	number sentence
decimal subtraction	geometric patterns	number triplet
diagram	extension	obtuse angle
different size units	gram	odd numbers
distributive property	greatest common factor	open sentence
dividend	growing pattern	order of operations
divisibility	histogram	parallel lines
division	horizontal axis	parallelogram
elapsed time	identity property	parallelogram formula
English system of measurement	improbability	part to whole
equation	improper fraction	path
equilateral triangle	inequality	pattern addition
equivalent forms	inequality solutions	pattern subtraction
equivalent fractions	intersection of shapes	percent
equivalent	invalid argument	perimeter
representation	investigation	perpendicular lines
estimation	irrelevant information in a problem	pie chart
estimation of fractions	isosceles triangle	positive number
estimation of height	least common multiple	prime factorization
estimation of length	line graph	prime number
estimation of width	linear pattern	prism
even numbers	mass	probability
	mean	process of elimination
	measurement	product

Mathematics | Word List

Level 2 (cont.)

proof
 pyramid
 quotient
 rectangle formula
 rectangular prism
 reduced form
 relative distance
 relative magnitude
 relative magnitude of fractions
 relative size
 relevant information in a problem
 remainder
 repeating pattern
 restate a problem
 reversing order of operations
 rhombus
 right angle
 rotation
 rounding
 ruler
 same size units
 sample
 scale
 shape similarity
 shape symmetry
 shape transformation
 shrinking pattern
 sphere
 standard vs. nonstandard units
 studies
 subset
 subtraction algorithm
 surface area
 survey

symbolic representation
 tallies
 time zone
 trial & error
 triangle formula
 truncation
 unit conversion
 unit differences
 unlike denominators
 valid argument
 variability
 Venn diagram
 verbal representation of a problem
 verification
 vertical axis
 volume measurement
 volume of irregular shapes
 volume of rectangular solids

Level 3

3-dimensional shape
 cross section
 3-dimensional space
 addition of fractions
 algebraic expression
 algebraic expression expansion
 algebraic representation
 algebraic step function
 alternate interior angle
 angle bisector
 approximate lines
 area model
 area of irregular shapes
 array

axis of symmetry
 base 10
 base 60
 benchmarking
 biased sample
 blueprint
 box & whisker plot
 certainty of conclusions
 circle formula
 circumference formula
 combining like terms
 complementary angle
 complementary event
 complex problem
 composite number
 congruence
 conjecture
 constant difference
 constant rate of change
 constant ratio
 convert large number to small number
 convert small number to large number
 coordinate geometry
 coordinate plane
 coordinate system
 counter example
 counting procedure
 cube number
 cube root
 cubic unit
 data display error
 data extreme
 data gap
 data set
 deductive argument
 deductive prediction
 defining properties of shapes/figures

Level 3 (cont.)	logic NONE	place holder
dilation	logic NOT	planar cross section
dispersion	logic OR	plane
distance formula	logic SOME	plane figure
enlarging transformation	mathematical expression	polygon
equal ratios	maximum	precision of measurement
equation systems	method selection	prime factor
experiment	minimum	problem formulation
exponent	multiple problem-solving strategies	problem space
exponential notation	multiple strategies for proofs	problem types
fair chance	multiplication algorithm	projection
formula for missing values	mutually exclusive events	proportion
frequency	networks	proportional gain
frequency distribution	nominal data	quadratic equation
graphic representation of function	nondecimal numeration system	quadrilateral
graphic solution	nonlinear equation	random number
grid	nonlinear function	random sample
growth rate	nonroutine vs. routine problems	random variable
inductive reasoning	number property	range
input/output table	number systems	range of estimations
integer	number theory	rate
intercept	odds	rate of change
intersecting lines	ordered pairs	rational number
irregular polygon	outliers	rectangular coordinates
iterative sequence	overestimation	recursive sequence
large sample	parallel figures	reference set
limited sample	pattern division	reflection transformation
line symmetry	pattern multiplication	relative frequency
linear arithmetic sequence	pattern recognition	relatively prime
linear equation	percents above 100	reliability
linear geometric sequence	percents below 1	Roman numeral
linear units	perimeter formula	root
logic ALL	perpendicular bisector	rotation symmetry
logic AND	perspective	sample selection techniques
logic IF/THEN	pictorial representation	sample space
		sampling error
		scale drawing

Mathematics | Word List

Level 3 (cont.)

scale map
 scale transformation
 scatter plot
 scientific notation
 sequence
 shrinking transformation
 significant digits
 similar proportions
 similarity vs. congruence
 simplification
 slide transformation
 slope
 slope intercept formula
 solid figure
 solution algorithm
 solution probabilities
 spreadsheet
 square number
 square root
 square units
 stem & leaf plot
 straight edge & compass
 substitution for
 unknowns
 supplementary angle
 table representation of
 functions
 table representation of
 probability
 tessellation
 tetrahedron
 theoretical probability
 thermometer
 trapezoid formula
 tree diagram model
 triangle sides
 underestimation
 unit size

unknown
 variable
 variable change
 vertex
 volume formula
 volume of cylinder
 volume of prism
 volume of pyramid
 work backward
 written representation

Level 4

absolute error
 absolute function
 absolute value
 acceleration
 add radical expressions
 addition counting
 procedure
 algebraic function
 angle of depression
 arc
 area under curve
 asymptote of function
 base e
 binary system
 bivariate data
 bivariate data
 transformation
 bivariate distribution
 Cartesian coordinates
 categorical data
 central angle
 central limit theorem
 chord
 circle without center
 circular function
 classes of functions

combination
 complex number
 compound event
 compound interest
 conditional probability
 confidence interval
 conjugate complex
 number
 continuity
 continuous probability
 distribution
 control group
 correlation
 cosine
 critical paths method
 curve fitting
 curve fitting median
 method
 decibel
 density
 dependent events
 derivation
 dilation of object in a
 plane
 direct function
 direct measure
 discrete probability
 discrete probability
 distribution
 divide radical
 expressions
 domain of function
 empirical verification
 equivalent forms of
 equations
 equivalent forms of
 inequalities
 expected value
 experimental design
 experimental probability

Level 4 (cont.)

exponent	matrix addition	polynomial solution
exponential function	matrix division	successive approxi- mation
factorial	matrix equation	polynomial subtraction
factorial notation	matrix inversion	population
Fibonacci sequence	matrix multiplication	postulate
finite graph	matrix subtraction	powers
force	minimum/maximum of function	precision of estimation
formal mathematical induction	monitor progress of a problem	probability distribution
fraction inversion	monomial	proof paragraph
function composition	Monte Carlo simulation	protractor
function notation	multiply radical expressions	Pythagorean theorem
geometric function	natural log	quartile deviation
global/local behavior	natural number	radical expression
imaginary number	nature of deduction	radical function
independent events	negative exponent	radius
independent trials	normal curve	random sampling technique
indirect measure	number subsystems	range of function
inflection	parallel box plot	rational function
interest	parameter	real numbers
inverse function	parameter estimate	real-world function
irrational number	parametric equation	reciprocal
isometry	periodic function	recurrence equation
law of large numbers	permutation	recurrence relationship
law of probability	phase shift	recursive equation
limit	pi	reflection in plane
line equation	point of tangency	reflection in space
line segment	polar coordinates	regression coefficient
line segment congruence	polynomial	regression line
line segment similarity	polynomial addition	relative error
line through point not on a line	polynomial division	representativeness of sample
linear	polynomial function	Richter scale
log function	polynomial multiplication	right triangle geometry
logarithm	polynomial solution by bisection	roots & real numbers
logarithmic function	polynomial solution by sign change	roots to determine cost
mathematical theories		roots to determine profit
matrix		roots to determine revenue

Mathematics | Word List

Level 4 (cont.)

rotation in plane	strategy efficiency	trigonometric ratio
sample statistic	strategy generation	trigonometric relation
sampling distribution	technique	truth table proof
scalar	subtract radical	two-way tables
series	expressions	U.S. customary system
series circuit	successive	unit analysis
sigma notation	approximations	univariate data
similar figures	summary statistic	univariate distribution
sine	surface area cone	upper/lower bounds
sinusoidal function	surface area cylinder	validity
smallest set of rules	surface area sphere	variance
speed	synthetic geometry	vector
spurious correlation	systems of inequalities	vector addition
standard deviation	tangent	vector division
statistical experiment	term	vector multiplication
statistical regression	theorem	vector subtraction
statistic	theorem direct proof	velocity
step function	theorem indirect proof	vertex edge graph
	transversal	
	treatment group	