Suggested List of Mathematical Language

Integrated Algebra

Problem Solving

algebraically
concept
conjecture
constraint
equivalent
formulate
generalization
graphically
multiple representations
numerically
parameter
pattern
relative efficiency
strategy
verbally

Reasoning and Proof

appropriate
approximation
argument
claim
conclusion
conjecture
counterexample
explain
inductive reasoning
logical argument
mathematical conjecture
proof
refute
systematic approach

validity
Venn diagram
verify

Communication

accuracy
analyze
argument
coherent
communicate
comprehension
conclusion
conjecture
decoding
elicit
equation
evaluate
extend
formula
function
graph
interpretation
mathematical visual
rationale
standard (mathematical) notation
strategy
table
technical writing
terminology
valid

Connections

coherent whole
concept

connection
formulate
physical model
procedure
quantitative model
representation

Representation

angle of elevation
array
chart
compare
diagram
equation
function
graph
interpret
mathematical phenomena
organize
physical phenomena
profit
record
social phenomena
symbol
table
technology
translate

Number Sense and Operations

absolute value
algebraic problem
arithmetic operation
arrangements (permutations)
associative property
closure property
commutative property
counting techniques
decimal
denominator
discount
distributive property
exponential expression
expression
factorial

field
fraction
Fundamental Principle of Counting
group
identity property
inverse property
like/unlike radical terms
number theory
numerator
percent of increase/decrease
product
properties of the Real numbers
proportionality/direct variation
quotient
radical
radicand
real numbers
scientific notation
simplest form
variable

Algebra

acute angle
adjacent side/angle
algebraic equation
algebraic expression
algebraic fraction
analyze
axis of symmetry
binomial
coefficient
common base
complement of a subset
coordinates
cosine
dependent
difference of two perfect squares
element
equation
exponent
exponential growth and decay
expression
factoring
fractional expression
greatest common factor (GCF)

hypotenuse
independent variable
inequality
integer
integral coefficient
integral exponent
integral root(s)
intersection of sets
interval notation
lead coefficient
legs of a right triangle
line parallel to the x- or y-axis
linear equation in one variable
linear inequality in one variable
literal equation
lowest terms fraction
monomial
multiplication property of zero
opposite side/angle
parabola
parallel
polynomial
product
properties of exponents
proportion
Pythagorean Theorem
quadratic equation
quantitative
quotient
ratio
relation
right angle
right triangle
root(s) of an equation
roster form
set
set-builder notation
sine
slope
solution set
subset
sum
system of linear inequalities
systems of linear equations
tangent
translate (from verbal to symbolic)

trigonometry
trinomial
undefined
union of sets
universal set
variable
verbal expression
verbal sentence
vertex
x-axis
y-axis

Geometry

absolute value function
angle
area
axis of symmetry of a parabola
circle
coefficient
cylinder
decagon
exponential function
function
generalize
geometric shape
graph of a relation
hexagon
investigate
nonagon
octagon
ordered pair
parabolic function
parallelogram
pentagon
perimeter
polygon
quadrilateral
quarter-circle
rational coefficient
rectangle
rectangular solid
regular polygon
relation
rhombus
roots of a parabolic function

sector of a circle
semi-circle
spatial reasoning
square
surface area
trapezoid
triangle
vertex
visualization
volume

Measurement

appropriate unit
conversion
cubic unit
error
linear measure
linear unit
magnitude
measurement system
rate
relative error
square unit
unit

Statistics and Probability

appropriateness
biased
bivariate
box-and-whisker plot
calculated probability
categorize
causation
central tendency
complement
conditional probability
correlation
cumulative frequency distribution table
cumulative frequency histogram
data
dependent events
dependent variable
element
empirical probability

experimental design
extrapolation
favorable event
finite sample space
five statistical summary
frequency distribution table
histogram
independent events
independent variable
interpolation
line of best fit
linear transformation
maximum
mean
measure of central tendency
median
minimum
mode
mutually exclusive events
not mutually exclusive events
percentile rank
probability
qualitative
quantitative
quartiles (specifically: first, second, third
    or lower, middle, upper)
range
sample space
scatter plot
series
univariate