

Mathematical Vocabulary Children in Year 5

Should know, understand, use and be able to spell.

(Words new to Year 5 are emphasised.)

Place value, ordering and rounding

units, ones

tens, hundreds, thousands

ten thousand, hundred thousand, million

digit, one-, two-, three- or four-digit number

numeral

'teens' number

place, place value

stands for, represents

exchange

the same number as, as many as

equal to

*Of **two** objects/amounts:*

$>$, greater than, more than, larger than, bigger than

$<$, less than, fewer than, smaller than

\geq , *greater than or equal to*

\leq , *less than or equal to*

*Of **three** or more objects/amounts:*

greatest, most, largest, biggest

least, fewest, smallest

one... ten... one hundred... one thousand more/less

compare, order, size

ascending/descending order

first... tenth... twentieth

last, last but one

before, after, next

between, half-way between

guess how many, estimate

nearly, roughly, close to, about the same as

approximate, approximately

\approx , *is approximately equal to*

just over, just under

exact, exactly

too many, too few, enough, not enough

round (up or down), nearest

round to the nearest ten/hundred

round to the nearest thousand

integer

positive, negative

above/below zero, minus

Properties of numbers and number sequences

number, count, how many...?

odd, even

every other

how many times?

multiple of

digit

next, consecutive

sequence

continue

predict

pattern, pair, rule

relationship

sort, classify, property

formula

divisible (by), *divisibility*, factor

square number

one squared, two squared....(1^2 , 2^2 ...)

Fractions, decimals, percentages, ratio and proportion

part, equal parts

fraction, *proper/improper fraction*

mixed number

numerator, denominator

equivalent, reduced to, cancel

one whole

half, quarter, eighth

third, sixth, *ninth, twelfth*

fifth, tenth, twentieth, *hundredth*

proportion, *ratio*

in every, for every

to every, as many as

decimal, decimal fraction

decimal point, decimal place

percentage, per cent, %

Calculations

Addition and subtraction

add, addition, more, plus, increase

sum, total, altogether

score

double, near double

how many more to make...?
subtract, subtraction, take (away), minus, decrease
leave, how many are left/left over?
difference between
half, halve
how many more/ fewer is... than...?
how much more/less is...?
equals, sign, is the same as
tens boundary, hundreds boundary
units boundary, tenths boundary
inverse

Multiplication and division

lots of, groups of
times, multiply, multiplication, multiplied by
multiple of, product
once, twice, three times
four times, five times... ten times
times as (big, long, wide, and so on)
repeated addition
array
row, column
double, halve
share, share equally
one each, two each, three each...
group in pairs, threes... tens
equal groups of
divide, divided by, divided into, divisible by
remainder
factor, quotient, divisible by
inverse

Using a calculator

calculator
display, key, enter, clear
constant

Solving problems

Making decisions and reasoning

pattern, puzzle
calculate, calculation
mental calculation
method, *strategy*
jotting

answer
right, correct, wrong
what could we try next?
how did you work it out?
number sentence
sign, operation, symbol, equation

Money

money
coin, note
penny, pence, pound, (£)
price, cost
buy, bought, sell, sold
spend, spent
pay
change
dear, costs more, more/most expensive
cheap, costs less, cheaper, less/least expensive
how much...? how many...?
total, amount, value, worth
discount
currency

Handling data

count, tally, sort, vote
survey, questionnaire
data, *database*
graph, block graph, *line graph*
pictogram,
represent
group, set
list, chart, bar chart, *bar line chart*
tally chart
table, frequency table
Carroll diagram, Venn diagram
label, title, axis, axes
diagram
most popular, most common
least popular, least common
mode, range
maximum/minimum value
classify, *outcome*

Probability

fair, unfair
likely, unlikely, likelihood
certain, uncertain
probable, possible, impossible
chance, good chance
poor chance, no chance
risk, doubt

Measures, shape and space

Measures (general)

measure, measurement
size
compare
unit, standard unit
metric unit, imperial unit
measuring scale, division
guess, estimate
enough, not enough
too much, too little
too many, too few
nearly, roughly, about, close to
about the same as, approximately
just over, just under

Length

length, width, height, depth, breadth
long, short, tall, high, low
wide, narrow, deep, shallow, thick, thin
longer, shorter, taller, higher... and so on
longest, shortest, tallest, highest... and so on
far, further, furthest, near, close
distance apart/between... to... from
edge, perimeter
kilometre (*km*), metre (*m*), centimetre (*cm*), millimetre (*mm*)
mile
ruler, metre stick, tape measure

Mass

mass: big, bigger, small, smaller, balances
weight: heavy/light, heavier/lighter, heaviest/lightest
weigh, weighs

kilogram (*kg*), half-kilogram, gram (*g*)
balance, scales

Capacity

capacity
full, half full
empty
holds, contains
litre (*l*), half-litre, millilitre (*ml*)
pint, *gallon*
container, measuring cylinder

Area

area, covers, surface
square centimetre (cm^2), *square metre* (m^2)
square millimetre (mm^2)

Time

time
days of the week: Monday, Tuesday...
months of the year: January, February...
seasons: spring, summer, autumn, winter
day, week, fortnight, month
year, leap year, century, millennium
weekend, birthday
holiday
calendar, date, date of birth
morning, afternoon, evening, night
am, pm, noon, midnight
today, yesterday, tomorrow
before, after, next, last
now, soon, early, late, earliest, latest
quick, quicker, quickest, quickly
fast, faster, fastest, slow, slower, slowest, slowly
old, older, oldest, new, newer, newest
takes longer, takes less time
how long ago?/how long will it be to...?
how long will it take to...?
timetable, arrive, depart
hour, minute, second
o'clock, half past, quarter to, quarter past
clock, watch, hands
digital/analogue clock/watch, timer
24-hour clock, *12-hour clock*
how often?
always, never, often, sometimes, usually

Shape and space

shape, pattern
flat, line
curved, straight
round
hollow, solid
corner
point, pointed
face, side, edge, end
sort
make, build, construct, draw, sketch
centre, radius, diameter
net
surface
angle, right-angled
congruent
base, square-based
vertex, vertices
layer, diagram
regular, irregular
concave, convex
open, closed

3D shapes

3D, three-dimensional
cube, cuboid
pyramid
sphere, hemi-sphere, spherical
cone
cylinder, cylindrical
prism
tetrahedron, polyhedron, *octahedron*

2D shapes

2D, two-dimensional
circle, circular, semi-circle
triangle, triangular
equilateral triangle, isosceles triangle, *scalene triangle*
square
rectangle, rectangular, oblong
pentagon, pentagonal
hexagon, hexagonal
heptagon
octagon, octagonal
polygon
quadrilateral

Patterns and symmetry

size

bigger, larger, smaller

symmetrical

line of symmetry, *axis of symmetry*

line symmetry, *reflective symmetry*

fold

match

mirror line, reflection, reflect

pattern, repeating pattern, translation

Position, direction and movement

position

over, under, underneath

above, below, top, bottom, side

on, in, outside, inside, around

in front, behind, front, back

before, after, beside, next to

opposite, apart

between, middle, edge, centre

corner

direction

journey, route, map, plan

left, right

up, down, higher, lower

forwards, backwards, sideways, across

next to, close, far

along, through, to, from, towards, away from

ascend, descend

grid, row, column

origin, coordinates

clockwise, anti-clockwise

compass point, north, south, east, west (N, S, E, W)

north-east, north-west, south-east, south-west
(NE, NW, SE, SW)

horizontal, vertical, diagonal

parallel, perpendicular

x-axis, y-axis

quadrant

movement

slide, roll

whole turn, half turn, quarter turn

rotate, *rotation*

angle, ...is a greater/smaller angle than

right angle, *acute, obtuse*

degree

straight line

stretch, bend

ruler, set square
angle measurer, compasses, *protractor*

Instructions

listen, join in, say, recite
think, imagine, remember
start from, start with, start at
look at, point to, show me

put, place
arrange, rearrange
change, change over
split, separate

carry on, continue, repeat
what comes next? predict
describe the pattern, describe the rule

find, find all, find different
investigate

choose, decide
collect

use, make, build, construct, *bisect*

tell me, describe, name, pick out, *identify*
discuss, talk about
explain
explain your method/answer/ *reasoning*
give an example of...
show how you...
show your working
justify
make a statement

read, write, record
write in figures
present, represent
interpret
trace, copy
complete, finish, end

fill in, shade, colour
label, plot

tick, cross
draw, sketch
draw a line between, join (up), ring, arrow

cost, count, tally

calculate, work out, solve, *convert*
investigate, question
answer
check

General

same, different
missing number/s
number facts, number pairs, number bonds
greatest value, least value
number line, number track
number square, hundred square
number cards, number grid
abacus
counters, cubes, blocks, rods
die, dice, *spinner*
dominoes
pegs, peg board, pin board
geo-strips
same way, different way
best way, another way
in order, in a different order
not
all, every, each