

OUR LADY OF LOURDES CATHOLIC MULTI-ACADEMY TRUST
ST HUGH'S CATHOLIC PRIMARY VOLUNTARY ACADEMY

MATHEMATICS

VOCABULARY

PROGRESSION



MATHEMATICS VOCABULARY PROGRESSION

Overview

(see also: <https://www.ncetm.org.uk/features/four-ways-to-create-better-mathematical-talk-in-your-classroom/>)

Expressing mathematical ideas orally helps children to build communication skills. It can also form an important part of developing understanding of mathematical concepts and the ability to reason mathematically.

Teaching children specific mathematical vocabulary encourages precision, giving pupils a door on the world of the mathematician. It also supports those with English as an additional language to participate on equal terms with their English-speaking peers.

Pupils' mathematical conversations gives essential insight into their conceptual understanding and allows identification of misconceptions that may be causing more widespread problems. It also gives an opportunity to share overheard insights with the whole class.

1 Create an expectation of mathematical talk

Mathematical talk is not something that can be expected of pupils occasionally or suddenly – it takes practice, and the expectation needs to be built up over time. The following are suggestions that can help build that expectation:

Choral repetition of whole sentence answers can help pupils to engage better with more independent mathematical talk, by modelling and giving them the tools they need to begin to construct their own sentences. Setting an **expectation of full-sentence answers**, even to short, closed questions, can develop some of the skills and confidence needed to respond orally to more complex mathematical problems.

Opportunities to **talk about something other than 'the answer'** can create a more discursive atmosphere and reduce inhibitions by removing the anxiety of being 'wrong'. For example – classifying, comparing, focusing on method rather than solution. Questions such as 'What do you notice?' or 'What do you think would happen if...?' can be useful.

Younger children need more scaffolding and support with mathematical talk. Mathematical talk happens much more spontaneously in classrooms after pupils have become accustomed to it over a number of years.

2 Introduce vocabulary

In order to effectively develop mathematical talk, pupils will need to acquire mathematical vocabulary. Use of technical and precise mathematical language should be evident across the school and should be introduced very explicitly to pupils, carefully planning for its introduction and use.

Mathematical terms can be fun for children to learn to use correctly and can be an opportunity for a bit of historical or etymological exploration and good stories!

Examples include *equation*, *addend*, *subtrahend*, *subitise* and *calculate*.

Beware of words that are often used imprecisely and can therefore cause confusion: words such as *sum* (when used generically beyond addition calculations), *equals*, *average*, and *half*.

Beware also of words that have a meaning in English that is different from or less precise than the mathematical meaning:

words such as *takeaway*, *mean*, *difference*, *adjacent*, *factor*, *negative* and *range*.

MATHEMATICS VOCABULARY PROGRESSION

3 Support children in beginning mathematical talk

Generic sentence starters can help give a structure in which children can express their ideas.

Examples might be 'I agree because...'/ 'I disagree because...'/ 'If I know..., then I know...'.

Stem sentences are more specific to the maths being learned but give children a clear 'full-sentence' structure in which to put their own answers. 'This is the number 42. The 4 shows we have 4 groups of ten. The 2 shows we have 2 extra ones.' is an example (when learning about place value in Year 2 – sentence taken from the DfE 2020 maths guidance p.51).

The **teacher modelling** an oral answer to a question is also a powerful way to demonstrate expectations. 'My turn, your turn' is one method for doing this: the teacher first models the answer to a question and then asks pupils to answer a question with a very similar structure, gradually building up the complexity of questions.

4 Encourage more reluctant talkers

'**Think, pair, share**', where pupils first get a chance to try their ideas out with a partner, can increase confidence in sharing with the class. When the idea is shared more publicly, because it is 'our idea' rather than 'my idea', this can feel less exposing to the contributor.

Asking an individual '**What might someone say** in response to this question and why?' can also give children confidence to express an idea they are unsure about, or to identify potential misconceptions.

Drawing other pupils into a discussion that has been started by a more vocal child can help create a climate of discussion and allows the less confident child to comment on a response already given. Use prompts such as 'Do you agree/disagree?', 'Could anyone explain it a different way?', and 'Did anyone get the answer another way? How? Which is easier?'.

WHITE ROSE MATHS - Schemes of learning, further vocabulary guidance

For each small step shown in the White Rose schemes of learning, further guidance is given regarding use of vocabulary for a given lesson, including 'Things to look out for' (which may include notes on possible misconceptions as well as vocabulary to recap from previous years), 'Key questions' (which will encourage responses including correct vocabulary) and 'possible sentence stems' (which will allow teachers to model appropriate vocabulary usage and similarly show how children should be able to express their answers both in writing and orally).

Year 4 | Summer term | Block 4 - Shape | Step 1

Understand angles as turns



Notes and guidance

In Year 3, children explored full, half and quarter turns, using the language of clockwise and anticlockwise. This small step is an opportunity for children to revisit that learning.

Begin by recapping full, half and quarter turns. Ask children to stand up and turn as instructed, including a variety of different turns both clockwise and anticlockwise. Discuss the significance of clockwise and anticlockwise in this context, using the hands of a clock to demonstrate if needed. Children explore different turns from different starting points, including using compass directions. They then work out the turn after being given a start and end position. They also consider what a pictorial representation of an angle looks like and how this relates to turns.

Things to look out for

- Children may confuse clockwise and anticlockwise.
- Children may need reminding about the meaning of half, quarter and three-quarters.
- Children may relate angles to the distance between two points on a line rather than the measure of turn between the lines.

Key questions

- What is a full turn?
- What is the difference between a half turn and a quarter turn?
- Which way do the hands move around a clock?
- What does "clockwise"/"anticlockwise" mean?
- What direction will you be facing if you complete a _____ turn clockwise/anticlockwise?
- If you were facing _____, and are now facing _____, what turn have you made? Is there more than one answer?

Possible sentence stems

- I am now facing _____
- If I make a _____ turn clockwise/anticlockwise, I will be facing _____
- To make a three-quarter turn, I could make a _____ turn followed by a _____ turn.
- A _____ turn clockwise is the same as a _____ turn anticlockwise.

National Curriculum links

- Recognise angles as a property of shape or a description of a turn (Y3)

MATHEMATICS VOCABULARY PROGRESSION

EARLY YEARS FOUNDATION STAGE

NUMBER

Number and place value

Number

zero
number
one, two, three ... to twenty and beyond
teens numbers, eleven, twelve ... twenty
none
how many ...?
count, count (up) to, count on (from, to), count back (from, to)
count in ones, twos, fives, tens
is the same as
more, less
odd, even
few
pattern
pair

Place value

ones
tens
digit
the same number as, as many as
more, larger, bigger, greater
fewer, smaller, less
fewest, smallest, least
most, biggest, largest, greatest
one more, ten more
one less, ten less
compare
order
size
first, second, third... twentieth
last, last but one
before, after
next
between

Estimating

guess
how many ...?
estimate
nearly
close to
about the same as
just over, just under
too many, too few,
enough, not enough

Addition and subtraction

add, more, and
make, sum, total
altogether
double
one more, two more ... ten more
how many more to make ...?
how many more is ... than ...?
how much more is ...?
take away
how many are left/left over?
how many have gone?
one less, two less, ten less ...
how many fewer is ... than ...?
how much less is ...?
difference between

Multiplication and division

sharing
doubling
halving
number patterns

Fractions

parts of a whole
half
quarter

MATHEMATICS VOCABULARY PROGRESSION

EARLY YEARS FOUNDATION STAGE

MEASUREMENT

measure

size

compare

guess, estimate

enough, not enough

too much, too little

too many, too few

nearly, close to, about the same as

just over, just under

Length

metre

length, height, width, depth

long, short, tall

high, low

wide, narrow

thick, thin

longer, shorter, taller, higher ... and so on

longest, shortest, tallest, highest ... and so on

far, near, close

Weight

weigh, weighs, balances

heavy, light

heavier than, lighter than

heaviest, lightest

scales

Capacity and volume

full

empty

half full

holds

container

Time

time

days of the week, Monday, Tuesday ...

day, week

birthday, holiday

morning, afternoon, evening, night

bedtime, dinner time, playtime

today, yesterday, tomorrow

before, after

next, last

now, soon, early, late

quick, quicker, quickest, quickly

slow, slower, slowest, slowly

old, older, oldest

new, newer, newest

takes longer, takes less time

hour, o'clock

clock, watch, hands

Money

money

coin

penny, pence, pound

price, cost

buy, sell

spend, spent

pay

GEOMETRY

Properties of shape

shape, pattern

flat

curved, straight

round

hollow, solid

sort

make, build, draw

size

MATHEMATICS VOCABULARY PROGRESSION

EARLY YEARS FOUNDATION STAGE

bigger, larger, smaller
symmetrical
pattern, repeating pattern
match

2-D shape

corner, side
rectangle (including square)
circle
triangle

3-D shape

face, edge, vertex, vertices
cube
pyramid
sphere
cone

Position and direction

position
over, under
above, below
top, bottom, side
on, in
outside, inside
around
in front, behind
front, back
beside, next to
opposite
apart
between
middle, edge
corner
direction
left, right
up, down
forwards, backwards, sideways

across
next to, close, near, far
along
through
to, from, towards, away from
movement
slide
roll
turn
stretch, bend
whole turn, half turn

STATISTICS

count, sort
group, set
list

GENERAL

pattern
puzzle
what could we try next?
how did you work it out?
recognise
describe
draw
compare
sort

MATHEMATICS VOCABULARY PROGRESSION

YEAR 1

NUMBER

Number and place value

Number

number

numeral

zero

one, two, three ... twenty

teens numbers, eleven, twelve ... twenty

twenty-one, twenty-two ... one hundred

none

how many ...?

count, count (up) to, count on (from, to), count back (from, to)

forwards

backwards

count in ones, twos, fives, tens

equal to

equivalent to

is the same as

more, less

most, least

many

odd, even

multiple of

few

pattern

pair

Place value

ones

tens

digit

the same number as, as many as

more, larger, bigger, greater

fewer, smaller, less

fewest, smallest, least

most, biggest, largest, greatest

one more, ten more

one less, ten less

equal to

one more, ten more

one less, ten less

compare

order

size

first, second, third... twentieth

last, last but one

before, after

next

between

half-way between

above, below

Estimating

guess

how many ...?

estimate

nearly

roughly

close to

about the same as

just over, just under

too many, too few

enough, not enough

Addition and subtraction

addition

add, more, and

make, sum, total

altogether

double

near double

half, halve

one more, two more ... ten more

how many more to make ...?

how many more is ... than ...?

how much more is ...?

MATHEMATICS VOCABULARY PROGRESSION

YEAR 1

subtract

take away

how many are left/left over?

how many have gone?

one less, two less, ten less ...

how many fewer is ... than ...?

how much less is ...?

difference between

equals

is the same as

number bonds/pairs

missing number

Multiplication and division

multiplication

multiply

multiplied by

multiple

division

dividing

grouping

sharing

doubling

halving

array

number patterns

Fractions

fraction

equal part

equal grouping

equal sharing

parts of a whole

half

one of two equal parts

quarter

one of four equal parts

MEASUREMENT

measure

measurement

size

compare

guess, estimate

enough, not enough

too much, too little

too many, too few

nearly, close to, about the same as

roughly

just over, just under

Length

centimetre, metre

length, height, width, depth

long, short, tall

high, low

wide, narrow

thick, thin

longer, shorter, taller, higher ... and so on

longest, shortest, tallest, highest ... and so on

far, near, close

ruler

metre stick

Weight

kilogram, half kilogram

weigh, weighs, balances

heavy, light

heavier than, lighter than

heaviest, lightest

scales

MATHEMATICS VOCABULARY PROGRESSION

YEAR 1

Capacity and volume

litre, half litre

capacity

volume

full

empty

more than

less than

half full

quarter full

holds

container

Time

time

days of the week, Monday, Tuesday ...

months of the year (January, February ...)

seasons: spring, summer, autumn, winter

day, week, weekend, month, year

birthday, holiday

morning, afternoon, evening, night

bedtime, dinner time, playtime

today, yesterday, tomorrow

before, after

earlier, later

next, first, last

midnight

date

now, soon, early, late

quick, quicker, quickest, quickly

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 ...?

how often?

always, never, often, sometimes

usually

once, twice

hour, o'clock, half past, quarter past, quarter to
clock, clock face, watch, hands

hour hand, minute hand

hours, minutes

Money

money

coin

penny, pence, pound

price, cost

buy, sell

spend, spent

pay

change

dear, costs more

cheap, costs less, cheaper

costs the same as

how much ...?

how many ...?

total

GEOMETRY

Properties of shape

shape, pattern

flat

curved, straight

round

hollow, solid

sort

make, build, draw

size

bigger, larger, smaller

symmetry, symmetrical, symmetrical pattern

pattern, repeating pattern

match

MATHEMATICS VOCABULARY PROGRESSION

YEAR 1

2-D shape

corner, side

point, pointed

rectangle (including square)

circle

triangle

3-D shape

face, edge, vertex, vertices

cube, **cuboid**

pyramid

sphere

cone

cylinder

Position and direction

position

over, under, **underneath**

above, below

top, bottom, side

on, in

outside, inside

around

in front, behind

front, back

beside, next to

opposite

apart

between

middle, edge

centre

corner

direction

journey

left, right

up, down

forwards, backwards, sideways

across

next to, close, near, far

along

through

to, from, towards, away from

movement

slide

roll

turn

stretch, bend

whole turn, half turn, **quarter turn, three-quarter turn**

STATISTICS

count, sort, **vote**

group, set

list, **table**

GENERAL

pattern

puzzle

problem, problem solving

mental, mentally

what could we try next?

how did you work it out?

explain your thinking

recognise

describe

draw

compare

sort

MATHEMATICS VOCABULARY PROGRESSION

YEAR 2

NUMBER

Number and place value

Number

number

numeral

zero

one, two, three ... twenty

teens numbers, eleven, twelve ... twenty

twenty-one, twenty-two ... one hundred, **two hundred ... one thousand**

none

how many ...?

count, count (up) to, count on (from, to), count back (from, to)

forwards

backwards

count in ones, twos, fives, tens, **threes, fours and so on**

equal to

equivalent to

is the same as

more, less

most, least

tally

many

odd, even

multiple of

sequence

continue

predict

few

pattern

pair, **rule**

> greater than

< less than

Place value

ones

tens, **hundreds**

digit

one-, two- or three-digit number

place, place value

stands for, represents

exchange

the same number as, as many as

more, larger, bigger, greater

fewer, smaller, less

fewest, smallest, least

most, biggest, largest, greatest

one more, ten more

one less, ten less

equal to

compare

order

size

first, second, third ... twentieth

twenty-first, twenty-second ...

last, last but one

before, after

next

between

halfway between

above, below

Estimating

guess

how many ...?

estimate

nearly

roughly

close to

about the same as

just over, just under

exact, exactly

MATHEMATICS VOCABULARY PROGRESSION

YEAR 2

too many, too few
enough, not enough

Addition and subtraction

addition
add, more, and
make, sum, total
altogether
double
near double
half, halve
one more, two more ... ten more ... **one hundred more**
how many more to make ...?
how many more is ... than ...?
how much more is ...?
subtract
take away
how many are left/left over?
how many have gone?
one less, two less, ten less ... one hundred less
how many fewer is ... than ...?
how much less is ...?
difference between
equals
is the same as
number bonds/pairs/**facts**
tens boundary

Multiplication and division

multiplication
multiply
multiplied by
multiple
groups of
times
once, twice, three times ... ten times
repeated addition

division
dividing, **divide, divided by, divided into**
grouping
sharing, **share, share equally**
left, left over
one each, two each, three each ... ten each
group in pairs, threes ... tens
equal groups of
doubling
halving
array
row, column
number patterns
multiplication table
multiplication fact, division fact

Fractions

fraction
equivalent fraction
mixed number
numerator, denominator
equal part
equal grouping
equal sharing
parts of a whole
half, **two halves**
one of two equal parts
quarter, **two quarters, three quarters**
one of four equal parts
one third, two thirds
one of three equal parts

MEASUREMENT

measure
measurement
size
compare
measuring scale

MATHEMATICS VOCABULARY PROGRESSION

YEAR 2

guess, estimate

enough, not enough

too much, too little

too many, too few

nearly, close to, about the same as

roughly

just over, just under

Length

centimetre, metre

length, height, width, depth

long, short, tall

high, low

wide, narrow

thick, thin

longer, shorter, taller, higher ... and so on

longest, shortest, tallest, highest ... and so on

far, **further, furthest**, near, close

ruler

metre stick, **tape measure**

Weight

kilogram, half kilogram, **gram**

weigh, weighs, balances

heavy, light

heavier than, lighter than

heaviest, lightest

scales

Capacity and volume

litre, half litre, **millilitre**

capacity

volume

full

empty

more than

less than

half full

quarter full

holds, **contains**

container

Temperature

temperature

degree

Time

time

days of the week, Monday, Tuesday ...

months of the year (January, February ...)

seasons: spring, summer, autumn, winter

day, week, weekend, **fortnight**, month, year

birthday, holiday

morning, afternoon, evening, night

bedtime, dinnertime, playtime

today, yesterday, tomorrow

before, after

earlier, later

next, first, last

midnight

date

now, soon, early, late

quick, quicker, quickest, quickly

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 ...?

how often?

always, never, often, sometimes

usually

once, twice

hour, o'clock, half past, quarter past, quarter to

5, 10, 15 ... minutes past

MATHEMATICS VOCABULARY PROGRESSION

YEAR 2

clock, clock face, watch, hands

digital/analogue clock/watch, timer

hour hand, minute hand

hours, minutes, **seconds**

Money

money

coin

penny, pence, pound

price, cost

buy, **bought**, sell, **sold**

spend, spent

pay

change

dear, costs more

cheap, costs less, cheaper

costs the same as

how much ...?

how many ...?

total

GEOMETRY

Properties of shape

shape, pattern

flat

curved, straight

round

hollow, solid

sort

make, build, draw

surface

size

bigger, larger, smaller

symmetry, symmetrical, symmetrical pattern

line symmetry

pattern, repeating

2-D shape

corner, side

point, pointed

rectangle (including square), **rectangular**

circle, **circular**

triangle, **triangular**

pentagon

hexagon

octagon

3-D shape

face, edge, vertex, vertices

cube, cuboid

pyramid

sphere

cone

cylinder

Position and direction

position

over, under, underneath

above, below

top, bottom, side

on, in

outside, inside

around

in front, behind

front, back

beside, next to

opposite

apart

between

middle, edge

centre

corner

direction

journey, **route**

left, right

MATHEMATICS VOCABULARY PROGRESSION

YEAR 2

up, down

higher, lower

forwards, backwards, sideways

across

next to, close, near, far

along

through

to, from, towards, away from

clockwise, anticlockwise

movement

slide

roll

turn

stretch, bend

whole turn, half turn, quarter turn, three-quarter turn

right angle

straight line

STATISTICS

count, **tally**, sort, vote

graph, block graph, pictogram

represent

group, set

list, table

label, title

most popular, most common

least popular, least common

GENERAL

pattern

puzzle

problem, problem solving

mental, mentally

what could we try next?

how did you work it out?

show how you ...

explain your thinking

explain your method

describe the pattern

describe the rule

investigate

recognise

describe

draw

compare

sort

mental calculation

written calculation

MATHEMATICS VOCABULARY PROGRESSION

YEAR 3

NUMBER

Number and place value

Number

number
numeral
zero
one, two, three ... twenty
teens numbers, eleven, twelve ... twenty
twenty-one, twenty-two ... one hundred, two hundred ... one thousand
none
how many ...?
count, count (up) to, count on (from, to), count back (from, to)
forwards
backwards
count in ones, twos, fives, tens, threes, fours, **eights, fifties** and so on to **hundreds**
equal to
equivalent to
is the same as
more, less
most, least
tally
many
odd, even
multiple of, **factor of**
sequence
continue
predict
few
pattern
pair, rule
relationship
> greater than
< less than
Roman numerals

Place value

ones
tens, hundreds
digit
one-, two- or three-digit number
place, place value
stands for, represents
exchange
the same number as, as many as
more, larger, bigger, greater
fewer, smaller, less
fewest, smallest, least
most, biggest, largest, greatest
one more, ten more, **one hundred more**
one less, ten less, **one hundred less**
equal to
compare
order
size
first, second, third ... twentieth
twenty-first, twenty-second ...
last, last but one
before, after
next
between
halfway between
above, below

Estimating

guess
how many ...?
estimate
nearly
roughly
close to
approximate, approximately
about the same as
just over, just under

MATHEMATICS VOCABULARY PROGRESSION

YEAR 3

exact, exactly

too many, too few

enough, not enough

round, nearest, round to the nearest ten, hundred

round up, round down

Addition and subtraction

addition

add, more, and

make, sum, total

altogether

double

near double

half, halve

one more, two more ... ten more ... one hundred more

how many more to make ...?

how many more is ... than ...?

how much more is ...?

subtract

take away

how many are left/left over?

how many have gone?

one less, two less, ten less ... one hundred less

how many fewer is ... than ...?

how much less is ...?

difference between

equals

is the same as

number bonds/pairs/facts

missing number

tens boundary, **hundreds boundary**

Multiplication and division

multiplication

multiply

multiplied by

multiple, **factor**

groups of

times

product

once, twice, three times ... ten times

repeated addition

division

dividing, divide, divided by, divided into

left, left over, **remainder**

grouping

sharing, share, share equally

one each, two each, three each ... ten each

group in pairs, threes ... tens

equal groups of

doubling

halving

array

row, column

number patterns

multiplication table

multiplication fact, division fact

Fractions

fraction

equivalent fraction

mixed number

numerator, denominator

equal part

equal grouping

equal sharing

parts of a whole

half, two halves

one of two equal parts

quarter, two quarters, three quarters

one of four equal parts

one third, two thirds

one of three equal parts

sixths, sevenths, eighths, tenths ...

MATHEMATICS VOCABULARY PROGRESSION

YEAR 3

MEASUREMENT

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

Length

millimetre, centimetre, metre, **kilometre, mile**
length, height, width, depth
long, short, tall
high, low
wide, narrow
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
perimeter
ruler
metre stick, tape measure

Weight

kilogram, half kilogram, gram
weigh, weighs, balances
heavy, light
heavier than, lighter than
heaviest, lightest
scales

Capacity and volume

litre, half litre, millilitre
capacity
volume
full
empty
more than
less than
half full
quarter full
holds, contains
container

Temperature

temperature
degree
centigrade

Time

time
days of the week, Monday, Tuesday ...
months of the year (January, February ...)
seasons: spring, summer, autumn, winter
day, week, weekend, fortnight, month, year, **century**
birthday, holiday
morning, afternoon, evening, night
bedtime, dinner time, playtime
today, yesterday, tomorrow
before, after
earlier, later
next, first, last
midnight
calendar, date
now, soon, early, late, **earliest, latest**
quick, quicker, quickest, quickly
slow, slower, slowest, slowly
old, older, oldest
new, newer, newest

MATHEMATICS VOCABULARY PROGRESSION

YEAR 3

takes longer, takes less time

how long ago?

how long will it be to ...?

how long will it take to ...?

how often?

always, never, often, sometimes

usually

once, twice

hour, o'clock, half past, quarter past, quarter to

5, 10, 15 ... minutes past

a.m., p.m.

clock, clock face, watch, hands

digital/analogue clock/watch, timer

hour hand, minute hand

hours, minutes, seconds

Roman numerals

12-hour clock time, 24-hour clock time

Money

money

coin

penny, pence, pound

price, cost

buy, bought, sell, sold

spend, spent

pay

change

dear, costs more

cheap, costs less, cheaper

costs the same as

how much ...?

how many ...?

total

GEOMETRY

Properties of shape

shape, pattern

flat

curved, straight

round

hollow, solid

sort

make, build, draw

perimeter

surface

size

bigger, larger, smaller

symmetry, symmetrical, symmetrical pattern

line symmetry

pattern, repeating pattern

match

2-D shape

corner, side

point, pointed

rectangle (including square), rectangular

circle, circular

triangle, triangular

pentagon, **pentagonal**

hexagon, **hexagonal**

octagon, **octagonal**

quadrilateral

right-angled

parallel, perpendicular

3-D shape

face, edge, vertex, vertices

cube, cuboid

pyramid

sphere, **hemisphere**

cone

cylinder

prism, triangular prism

Position and direction

position

MATHEMATICS VOCABULARY PROGRESSION

YEAR 3

over, under, underneath

above, below

top, bottom, side

on, in

outside, inside

around

in front, behind

front, back

beside, next to

opposite

apart

between

middle, edge

centre

corner

direction

journey, route

left, right

up, down

higher, lower

forwards, backwards, sideways

across

next to, close, near, far

along

through

to, from, towards, away from

clockwise, anticlockwise

compass point

north, south, east, west, N, S, E, W

horizontal, vertical, diagonal

movement

slide

roll

turn

stretch, bend

whole turn, half turn, quarter turn,

three-quarter turn

angle ... is a greater/smaller angle than

right angle

acute angle

obtuse angle

straight line

STATISTICS

count, tally, sort, vote

graph, block graph, pictogram

represent

group, set

list, table, chart, bar **chart, frequency table**

Carroll diagram, Venn diagram

label, title, **axis, axes**

diagram

most popular, most common

least popular, least common

GENERAL

pattern

puzzle

problem, problem-solving

mental, mentally

what could we try next?

how did you work it out?

show how you ...

explain your thinking

explain your method

describe the pattern

describe the rule

investigate

recognise

describe

draw

compare

sort

greatest value, least value

mental calculation

written calculation

statement

MATHEMATICS VOCABULARY PROGRESSION

YEAR 4

NUMBER

Number and place value

Number

number

numeral

zero

one, two, three ... twenty

teens numbers, eleven, twelve ... twenty

twenty-one, twenty-two ... one hundred, two hundred

... one thousand ... **ten thousand, hundred thousand, million**

none

how many ...?

count, count (up) to, count on (from, to),

count back (from, to)

forwards

backwards

count in ones, twos, fives, tens, threes,

fours, eights, fifties, **sixes, sevens, nines,**

twenty-fives and so on to hundreds,

thousands

equal to

equivalent to

is the same as

more, less

most, least

tally

many

odd, even

multiple of, factor of

sequence

continue

predict

few

pattern

pair, rule

relationship

next, consecutive

> greater than

< less than

Roman numerals

integer, positive, negative

above/below zero, minus

negative numbers

ascending/descending order

Place value

ones

tens, hundreds

digit

one-, two- or three-digit number

place, place value

stands for, represents

exchange

the same number as, as many as

more, larger, bigger, greater

fewer, smaller, less

fewest, smallest, least

most, biggest, largest, greatest

one more, ten more, one hundred more, **one**

thousand more

one less, ten less, one hundred less, **one**

thousand less

equal to

compare

order

size

first, second, third ... twentieth

twenty-first, twenty-second ...

last, last but on

before, after

next

between

halfway between

above, below

MATHEMATICS VOCABULARY PROGRESSION

YEAR 4

Estimating

guess
how many
estimate
nearly
roughly
close to
approximate, approximately
about the same as
just over, just under
exact, exactly
too many, too few
enough, not enough
round, nearest, round to the nearest ten, hundred,
thousand
round up, round down

Addition and subtraction

addition
add, more, and
make, sum, total
altogether
double
near double
half, halve
one more, two more... ten more... one hundred more
how many more to make ...?
how many more is ... than ...?
how much more is ...?
subtract
take away
how many are left/left over?
how many have gone?
one less, two less, ten less ... one hundred less
how many fewer is ... than ...?
how much less is ...?

difference between
equals
is the same as
number bonds/pairs/facts
missing number
tens boundary, hundreds boundary
inverse

Multiplication and division

multiplication
multiply
multiplied by
multiple, factor
groups of
times
product
once, twice, three times ... ten times
repeated addition
division
dividing, divide, divided by, divided into
left, left over, remainder
grouping
sharing, share, share equally
one each, two each, three each ... ten each
group in pairs, threes ... tens
equal groups of
doubling
halving
array
row, column
number patterns
multiplication table
multiplication fact, division fact
inverse
square, squared
cube, cubed

MATHEMATICS VOCABULARY PROGRESSION

YEAR 4

Fractions (including decimals)

fraction, **proper/improper fraction**
equivalent fraction
mixed number
numerator, denominator
equal part
equal grouping
equal sharing
parts of a whole
half, two halves
one of two equal parts
quarter, two quarters, three quarters
one of four equal parts
one third, two thirds
one of three equal parts
sixths, sevenths, eighths, tenths ... **hundredths**
decimal, decimal fraction, decimal point, decimal place, decimal equivalent
proportion

MEASUREMENT

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

Length

millimetre, centimetre, metre, kilometre, mile
length, height, width, depth, **breadth**
long, short, tall
high, low
wide, narrow
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
area, covers
square centimetre (cm²)
ruler
metre stick, tape measure

Weight

mass: big, bigger, small, smaller
weight: heavy/light, heavier/lighter, heaviest/lightest
kilogram, half kilogram, gram
weigh, weighs, balances
heavy, light
heavier than, lighter than
heaviest, lightest
scales

Capacity and volume

litre, half litre, millilitre
capacity
volume
full
empty
more than
less than
half full
quarter full

MATHEMATICS VOCABULARY PROGRESSION

YEAR 4

holds, contains

container, **measuring cylinder**

Temperature

temperature

degree

centigrade

Time

time

days of the week, Monday, Tuesday ...

months of the year (January, February ...)

seasons: spring, summer, autumn, winter

day, week, weekend, fortnight, month, year, **leap year**,
century, **millennium**

birthday, holiday

morning, afternoon, evening, night

bedtime, dinner time, playtime

today, yesterday, tomorrow

before, after

earlier, later

next, first, last

noon, midnight

calendar, date, **date of birth**

now, soon, early, late, earliest, latest

quick, quicker, quickest, quickly

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 ...?

how often?

always, never, often, sometimes

usually

once, twice

hour, o'clock, half past, quarter past, quarter to

5, 10, 15 ... minutes past

a.m., p.m.

clock, clock face, watch, hands

digital/analogue clock/watch, timer

hour hand, minute hand

hours, minutes, seconds

timetable, arrive, depart

Roman numerals

12-hour clock time, 24-hour clock time

Money

money

coin

penny, pence, pound

price, cost

buy, bought, sell, sold

spend, spent

pay

change

dear, costs more

cheap, costs less, cheaper

costs the same as

how much ...?

how many ...?

total

GEOMETRY

Properties of shape

shape, pattern

flat, line

curved, straight

round

hollow, solid

sort

make, build, **construct**, draw, **sketch**

perimeter

centre

surface

MATHEMATICS VOCABULARY PROGRESSION

YEAR 4

angle, right-angled

base, square-based

size

bigger, larger, smaller

symmetry, symmetrical, symmetrical pattern

line symmetry

reflect, reflection

pattern, repeating pattern

match

regular, irregular

2-D shape

2-D, two-dimensional

corner, side

point, pointed

rectangle (including square), rectangular, **oblong**

rectilinear

circle, circular

triangle, triangular

equilateral triangle, isosceles triangle, scalene triangle

pentagon, pentagonal

hexagon, hexagonal

heptagon

octagon, octagonal

quadrilateral

parallelogram, rhombus, trapezium

polygon

right-angled

parallel, perpendicular

x-axis, y-axis

3-D shape

3-D, three-dimensional

face, edge, vertex, vertices

cube, cuboid

pyramid

sphere, hemisphere, **spherical**

cone

cylinder, **cylindrical**

prism, triangular prism

tetrahedron, polyhedron

Position and direction

position

over, under, underneath

above, below

top, bottom, side

on, in

outside, inside

around

in front, behind

front, back

beside, next to

opposite

apart

between

middle, edge

centre

corner

direction

journey, route

left, right

up, down

higher, lower

forwards, backwards, sideways

across

next to, close, near, far

along

through

to, from, towards, away from

clockwise, anticlockwise

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

translate, translation

MATHEMATICS VOCABULARY PROGRESSION

YEAR 4

movement

slide

roll

turn

stretch, bend

whole turn, half turn, quarter turn, three-quarter turn

rotate, rotation

angle, is a greater/smaller angle than

degree

right angle

acute angle

obtuse angle

reflection

straight line

ruler, set square

angle measurer, compass

coordinate

STATISTICS

count, tally, sort, vote

survey, questionnaire, data

graph, block graph, pictogram

represent

group, set

list, table, chart, bar chart, frequency table

Carroll diagram, Venn diagram

label, title, axis, axes

diagram

most popular, most common

least popular, least common

GENERAL

pattern

puzzle

problem, problem solving

mental, mentally

what could we try next?

how did you work it out?

show how you ...

explain your thinking

explain your method

describe the pattern

describe the rule

investigate

recognise

describe

draw

compare

sort

greatest value, least value

mental calculation

written calculation

statement

justify

make a statement

explain your reasoning

MATHEMATICS VOCABULARY PROGRESSION

YEAR 5

NUMBER

Number and place value

Number

number

numeral

zero

one, two, three ... twenty

teens numbers, eleven, twelve ... twenty

twenty-one, twenty-two ... one hundred, two hundred

... one thousand ... ten thousand, hundred thousand, million

none

how many ...?

count, count (up) to, count on (from, to), count back (from, to)

forwards

backwards

count in ones, twos, fives, tens, threes, fours, eights, fifties, sixes, sevens, nines, twenty-fives and so on to hundreds, thousands

equal to

equivalent to

is the same as

more, less

most, least

tally

many

odd, even

multiple of, factor of

factor pair

sequence

continue

predict

few

pattern

pair, rule

relationship

next, consecutive

> greater than

< less than

≥ greater than or equal to

≤ less than or equal to

Roman numerals

integer, positive, negative

above/below zero, minus

negative numbers

formula

divisibility

square number

prime number

ascending/descending order

Place value

ones

tens, hundreds

digit

one-, two- or three-digit number

place, place value

stands for, represents

exchange

the same number as, as many as

more, larger, bigger, greater

fewer, smaller, less

fewest, smallest, least

most, biggest, largest, greatest

one more, ten more, one hundred more, one thousand more

one less, ten less, one hundred less, one thousand less

equal to

compare

order

size

first, second, third ... twentieth

twenty-first, twenty-second ...

last, last but one

MATHEMATICS VOCABULARY PROGRESSION

YEAR 5

before, after

next

between

halfway between

above, below

Estimating

guess

how many ...?

estimate

nearly

roughly

close to

approximate, approximately

about the same as

just over, just under

exact, exactly

too many, too few

enough, not enough

round, nearest, round to the nearest ten, hundred, thousand, **ten thousand**

round up, round down

Addition and subtraction

addition

add, more, and

make, sum, total

altogether

double

near double

half, halve

one more, two more ... ten more ... one hundred more

how many more to make ...?

how many more is ... than ...?

how much more is ...?

subtract

take away

how many are left/left over?

how many have gone?

one less, two less, ten less ... one hundred less

how many fewer is ... than ...?

how much less is ...?

difference between

equals

is the same as

number bonds/pairs/facts

missing number

tens boundary, hundreds boundary, **ones boundary, tenths boundary**

inverse

Multiplication and division

multiplication

multiply

multiplied by

multiple, factor

groups of

times

product

once, twice, three times ... ten times

repeated addition

division

dividing, divide, divided by, divided into

left, left over, remainder

grouping

sharing, share, share equally

one each, two each, three each ... ten each

group in pairs, threes ... tens

equal groups of

doubling

halving

array

row, column

number patterns

multiplication table

multiplication fact, division fact

MATHEMATICS VOCABULARY PROGRESSION

YEAR 5

inverse

square, squared

cube, cubed

Fractions (including decimals and percentages)

fraction, proper/improper fraction

equivalent fraction

mixed number

numerator, denominator

equivalent, reduced to, cancel

equal part

equal grouping

equal sharing

parts of a whole

half, two halves

one of two equal parts

quarter, two quarters, three quarters

one of four equal parts

one third, two thirds

one of three equal parts

sixths, sevenths, eighths, tenths ...

hundredths, **thousandths**

decimal, decimal fraction, decimal point, decimal place, decimal equivalent

proportion, **in every, for every**

percentage, per cent, %

MEASUREMENT

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, close to, about the same as, approximately

roughly

just over, just under

Length

millimetre, centimetre, metre, kilometre, mile

length, height, width, depth, breadth

long, short, tall

high, low

wide, narrow

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

area, covers

square centimetre (cm²), **square metre (m²)**,
square millimetre (mm²)

ruler

metre stick, tape measure

Weight

mass: big, bigger, small, smaller

weight: heavy/light, heavier/lighter, heaviest/lightest

kilogram, half kilogram, gram

weigh, weighs, balances

heavy, light

heavier than, lighter than

heaviest, lightest

scales

Capacity and volume

litre, half litre, millilitre

capacity

MATHEMATICS VOCABULARY PROGRESSION

YEAR 5

volume
full
empty
more than
less than
half full
quarter full
holds, contains
container, measuring cylinder

pint, gallon

Temperature

temperature
degree
centigrade

Time

time
days of the week, Monday, Tuesday ...
months of the year (January, February ...)
seasons: spring, summer, autumn, winter
day, week, weekend, fortnight, month, year, leap year,
century, millennium
birthday, holiday
morning, afternoon, evening, night
bedtime, dinner time, playtime
today, yesterday, tomorrow
before, after
earlier, later
next, first, last
noon, midnight
calendar, date, date of birth
now, soon, early, late, earliest, latest
quick, quicker, quickest, quickly
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 ...?
how often?
always, never, often, sometimes
usually
once, twice
hour, o'clock, half past, quarter past, quarter to
5, 10, 15 ... minutes past
a.m., p.m.
clock, clock face, watch, hands
digital/analogue clock/watch, timer
hour hand, minute hand
hours, minutes, seconds
timetable, arrive, depart
Roman numerals
12-hour clock time, 24-hour clock time

Money

money
coin
penny, pence, pound
price, cost
buy, bought, sell, sold
spend, spent
pay
change
dear, costs more
cheap, costs less, cheaper
costs the same as
how much ...?
how many ...?
total
discount
currency

GEOMETRY

Properties of shape

shape, pattern

MATHEMATICS VOCABULARY PROGRESSION

YEAR 5

flat, line

curved, straight

round

hollow, solid

sort

make, build, construct, draw, sketch

perimeter

centre, **radius, diameter**

surface

angle, right-angled

congruent

base, square-based

size

bigger, larger, smaller

symmetry, symmetrical, symmetrical pattern

line symmetry

reflect, reflection

axis of symmetry, reflective symmetry

pattern, repeating pattern

match

regular, irregular

2-D shape

2-D, two-dimensional

corner, side

point, pointed

rectangle (including square), rectangular, oblong

rectilinear

circle, circular

triangle, triangular

equilateral triangle, isosceles triangle, scalene triangle

pentagon, pentagonal

hexagon, hexagonal

heptagon

octagon, octagonal

quadrilateral

parallelogram, rhombus, trapezium

polygon

right -angled

parallel, perpendicular

x-axis, y-axis, **quadrant**

3-D shape

3-D, three-dimensional

face, edge, vertex, vertices

cube, cuboid

pyramid

sphere, hemisphere, spherical

cone

cylinder, cylindrical

prism, triangular prism

tetrahedron, polyhedron

octahedron

Position and direction

position

over, under, underneath

above, below

top, bottom, side

on, in

outside, inside

around

in front, behind

front, back

beside, next to

opposite

apart

between

middle, edge

centre

corner

direction

journey, route

left, right

up, down

MATHEMATICS VOCABULARY PROGRESSION

YEAR 5

higher, lower
forwards, backwards, sideways
across
next to, close, near, far
along
through
to, from, towards, away from
clockwise, anticlockwise
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
translate, translation
coordinate
movement
slide
roll
turn
stretch, bend
whole turn, half turn, quarter turn, three-quarter turn
rotate, rotation
angle, is a greater/smaller angle than
degree
right angle
acute angle
obtuse angle
reflex angle
reflection
straight line
ruler, set square
angle measurer, compass, **protractor**

STATISTICS

count, tally, sort, vote
survey, questionnaire, data, **database**
graph, block graph, pictogram
represent
group, set

list, table, chart, bar chart, frequency table,
bar line chart
Carroll diagram, Venn diagram
line graph
label, title, axis, axes
diagram
most popular, most common
least popular, least common
maximum/minimum value
outcome

GENERAL

pattern
puzzle
problem, problem solving
mental, mentally
what could we try next?
how did you work it out?
show how you ...
explain your thinking
explain your method
describe the pattern
describe the rule
investigate
recognise
describe
draw
compare
sort
greatest value, least value
mental calculation
written calculation
statement
justify
make a statement
explain your reasoning

MATHEMATICS VOCABULARY PROGRESSION

YEAR 6

NUMBER

Number and place value

Number

number
numeral
zero
one, two, three ... twenty
teens numbers, eleven, twelve ... twenty
twenty-one, twenty-two ... one hundred, two hundred
... one thousand ... ten thousand, hundred thousand,
million
none
how many ...?
count, count (up) to, count on (from, to), count back
(from, to)
forwards
backwards
count in ones, twos, fives, tens, threes, fours, eights,
fifties, sixes, sevens, nines, twenty-fives and so on to
hundreds, thousands
equal to
equivalent to
is the same as
more, less
most, least
tally
many
odd, even
multiple of, factor of
factor pair
sequence
continue
predict
few
pattern
pair, rule
relationship
next, consecutive
> greater than
< less than

\geq greater than or equal to
 \leq less than or equal to
Roman numerals
integer, positive, negative
above/below zero, minus
negative numbers
formula
divisibility
square number
prime number
factorise
prime factor
ascending/descending order
digit total

Place value

ones
tens, hundreds
digit
one-, two- or three-digit number
place, place value
stands for, represents
exchange
the same number as, as many as
more, larger, bigger, greater
fewer, smaller, less
fewest, smallest, least
most, biggest, largest, greatest
one more, ten more, one hundred more, one thou-
sand more
one less, ten less, one hundred less, one thousand less
equal to
compare
order
size
first, second, third ... twentieth
twenty-first, twenty-second ...
last, last but one
before, after
next
between

MATHEMATICS VOCABULARY PROGRESSION

YEAR 6

halfway between
above, below

Estimating

guess
how many ...?
estimate
nearly
roughly
close to
approximate, approximately
about the same as
just over, just under
exact, exactly
too many, too few
enough, not enough
round, nearest, round to the nearest ten, hundred,
thousand, ten thousand
round up, round down

Addition and subtraction

addition
add, more, and
make, sum, total
altogether
double
near double
half, halve
one more, two more ... ten more ... one hundred more
how many more to make ...?
how many more is ... than ...?
how much more is ...?
subtract
take away
how many are left/left over?
how many have gone?
one less, two less, ten less ... one hundred less
how many fewer is ... than ...?
how much less is ...?

difference between
equals
is the same as
number bonds/pairs/facts
missing number
tens boundary, hundreds boundary, ones boundary,
tenths boundary
inverse

Multiplication and division

multiplication
multiply
multiplied by
multiple, factor
groups of
times
product
once, twice, three times ... ten times
repeated addition
division
dividing, divide, divided by, divided into
left, left over, remainder
grouping
sharing, share, share equally
one each, two each, three each ... ten each
group in pairs, threes ... tens
equal groups of
doubling
halving
array
row, column
number patterns
multiplication table
multiplication fact, division fact
inverse
square, squared
cube, cubed

Fractions (including decimals, percentages, ratio and proportion)

fraction, proper/improper fraction

MATHEMATICS VOCABULARY PROGRESSION

YEAR 6

equivalent fraction
mixed number
numerator, denominator
equivalent, reduced to, cancel
equal part
equal grouping
equal sharing
parts of a whole
half, two halves
one of two equal parts
quarter, two quarters, three quarters
one of four equal parts
one third, two thirds
one of three equal parts
sixths, sevenths, eighths, tenths ...
hundredths, thousandths
decimal, decimal fraction, decimal point, decimal place, decimal equivalent
proportion, in every, for every
ratio
percentage, per cent, %

Algebra

formula, **formulae**
equation, unknown
variable

MEASUREMENT

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, close to, about the same as,

approximately
roughly
just over, just under

Length

centimetre, metre, millimetre, kilometre, mile,
yard, foot, feet, inch, inches
length, height, width, depth, breadth
long, short, tall
high, low
wide, narrow
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, **circumference**
area, covers
square centimetre (cm²), square metre (m²), square millimetre (mm²)
ruler
metre stick, tape measure

Weight

mass: big, bigger, small, smaller
weight: heavy/light, heavier/lighter, heaviest/lightest
tonne, kilogram, half kilogram, gram, **pound, ounce**
weigh, weighs, balances
heavy, light
heavier than, lighter than
heaviest, lightest
scales

Capacity and volume

litre, half litre, millilitre, **centilitre**
**cubic centimetres (cm³), cubic metres (m³),
cubic millimetres (mm³), cubic kilometres (km³)**
capacity
volume

MATHEMATICS VOCABULARY PROGRESSION

YEAR 6

full
empty
more than
less than
half full
quarter full
holds, contains
container, measuring cylinder
pint, gallon

Temperature

temperature
degree
centigrade

Time

time
days of the week, Monday, Tuesday ...
months of the year (January, February ...)
seasons: spring, summer, autumn, winter
day, week, weekend, fortnight, month, year, leap year,
century, millennium
birthday, holiday
morning, afternoon, evening, night
bedtime, dinner time, playtime
today, yesterday, tomorrow
before, after
earlier, later
next, first, last
noon, midnight
calendar, date, date of birth
now, soon, early, late, earliest, latest
quick, quicker, quickest, quickly
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 ...?

how often?
always, never, often, sometimes
usually
once, twice
hour, o'clock, half past, quarter past, quarter to
5, 10, 15 ... minutes past
a.m., p.m.
clock, clock face, watch, hands
digital/analogue clock/watch, timer
hour hand, minute hand
hours, minutes, seconds
timetable, arrive, depart
Roman numerals
12-hour clock time, 24-hour clock time
**Greenwich Mean Time, British Summer Time,
International Date Line**

Money

money
coin
penny, pence, pound
price, cost
buy, bought, sell, sold
spend, spent
pay
change
dear, costs more
cheap, costs less, cheaper
costs the same as
how much ...?
how many ...?
total
discount
currency
profit, loss

GEOMETRY

Properties of shape

shape, pattern
flat, line

MATHEMATICS VOCABULARY PROGRESSION

YEAR 6

curved, straight

round

hollow, solid

sort

make, build, construct, draw, sketch

perimeter

centre, radius, diameter

circumference, concentric, arc

net, open, closed

surface

angle, right-angled

congruent

intersecting, intersection

plane

base, square-based

size

bigger, larger, smaller

symmetry, symmetrical, symmetrical pattern

line symmetry

reflect, reflection

axis of symmetry, reflective symmetry

pattern, repeating pattern

match

regular, irregular

2-D shape

2-D, two-dimensional

corner, side

point, pointed

rectangle (including square), rectangular, oblong

rectilinear

circle, circular

triangle, triangular

equilateral triangle, isosceles triangle, scalene triangle

pentagon, pentagonal

hexagon, hexagonal

heptagon

octagon, octagonal

quadrilateral

parallelogram, rhombus, trapezium, kite

polygon

right-angled

parallel, perpendicular

x-axis, y-axis, quadrant

3-D shape

3-D, three-dimensional

face, edge, vertex, vertices

cube, cuboid

pyramid

sphere, hemisphere, spherical

cone

cylinder, cylindrical

prism, triangular prism

tetrahedron, polyhedron

octahedron

dodecahedron

net, open, closed

Position and direction

position

over, under, underneath

above, below

top, bottom, side

on, in

outside, inside

around

in front, behind

front, back

beside, next to

opposite

apart

between

middle, edge

centre

corner

direction

journey, route

left, right, up, down

MATHEMATICS VOCABULARY PROGRESSION

YEAR 6

higher, lower
forwards, backwards, sideways
across
next to, close, near, far
along
through
to, from, towards, away from
clockwise, anticlockwise
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
translate, translation
coordinate
movement
slide
roll
turn
stretch, bend
whole turn, half turn, quarter turn, three-quarter turn
rotate, rotation
angle, is a greater/smaller angle than
degree
right angle
acute angle
obtuse angle
reflex angle
reflection
straight line
ruler, set square
angle measurer, compass, protractor

STATISTICS

count, tally, sort, vote
survey, questionnaire, data, database
graph, block graph, pictogram
represent
group, set

list, table, chart, bar chart, frequency table, bar line
chart
Carroll diagram, Venn diagram
line graph
pie chart
label, title, axis, axes
diagram
most popular, most common
least popular, least common
maximum/minimum value
outcome
mean (mode, median, range as estimates for this)
statistics, distribution

GENERAL

pattern
puzzle
problem, problem solving
mental, mentally
what could we try next?
how did you work it out?
show how you ...
explain your thinking
explain your method
describe the pattern
describe the rule
investigate
recognise
describe
draw
compare
sort
greatest value, least value
mental calculation
written calculation
statement
justify
make a statement
explain your reasoning