

# **RISING STARS Mathematical Vocabulary Checklists**

## **EARLY YEARS FOUNDATION STAGE to YEAR 6**

## EARLY YEARS FOUNDATION STAGE

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### 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

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## 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

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

# 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 ...?

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

**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

**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



# 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

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

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

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 pattern  
match

### **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

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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

# 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

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 ...

## 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



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

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

# YEAR 4

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## 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

#### *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

### ***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

---

## **Fractions (including decimals)**

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 (cm<sup>2</sup>)  
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

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

---

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

### **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

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

## 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



# YEAR 5

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## 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

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

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 (cm<sup>2</sup>), square metre (m<sup>2</sup>),  
square millimetre (mm<sup>2</sup>)  
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  
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

---

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

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  
 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

# 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

≥ 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  
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 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  
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

inverse

square, squared

cube, cubed

### **Fractions (including decimals, percentages, ratio and proportion)**

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  
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 (cm<sup>2</sup>), square metre (m<sup>2</sup>),  
square millimetre (mm<sup>2</sup>)  
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 (cm<sup>3</sup>), cubic metres (m<sup>3</sup>),  
cubic millimetres (mm<sup>3</sup>), cubic kilometres  
(km<sup>3</sup>)  
capacity  
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  
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

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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

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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