Below are the vocabulary checklists from ‘Planning support for the new Mathematics National Curriculum.’The document states:

Children should be introduced to appropriate mathematical language in planning and teaching sequences. The following vocabulary checklists for each year group should be referred to as a core list of essential words and phrases but are not intended to be exhaustive. The lists have been extended from those provided by the National Numeracy Strategy to line up with the National Curriculum 2014.

Using a piece of software, the checklists have been colour-coded to show how frequently each word occurs in British English (according to the British National Corpus.) The key is:

Words inside the 1000 most common families more frequent

Words in families 1001-2000

Words in families 2001-3000

Words outside first 3000 families less frequent

Broadly, the less frequently a word occurs, the less likely a child is to have encountered it as a result of everyday interaction. Of course, this does not mean they will understand the word in the context of Maths: **face**, for example, is an everyday word that usually means something different in a Maths lesson.

Some of the results are unsurprising. Nobody needs colour coding to know that **octahedron**, for example,is a low-frequency word that pupils are unlikely to know! However, in cases such as:

it can be useful to be able to anticipate in advance which two words are most likely to prove tricky (and be ready with strategies to explain them.)

**Year 1**

|  |  |  |
| --- | --- | --- |
| **Numbers and place value**  **Counting, properties of numbers and number sequences**  number  zero, one, two, three… to twenty and beyond  zero, ten, twenty… one hundred  none  how many…?  count, count (up) to  count on (from, to)  count back (from, to)  count in ones, twos… tens…  more, less, many, few  odd, even  every other  how many times?  pattern, pair  **Place value and ordering**  units, ones, tens  exchange  digit  ‘teens’ number  the same number as, as many as  equal to  Of **two** objects/amounts:  greater, more, larger, bigger  less, fewer, smaller  Of **three** or more objects/amounts:  greatest, most, biggest, largest  least, fewest, smallest  one more, ten more  one less, ten less  compare, order  size  first, second, third… tenth, eleventh… 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 | **Number - Fractions**  Half, ½  Quarter, ¼  Half of a length, quantity, shape, set of objects  Two equal parts  4 equal parts  Whole  **Addition and subtraction**  , add, moreplus  make, sum, total, altogether  score  double, near double  one more, two more… ten more  how many more to make…?  how many more is… than…?  how much more is…?  subtract, take (away), minus  leave  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  number bonds  half, halve  equals, sign, is the same as    **Making decisions and reasoning**  pattern, puzzle  answer  right, wrong  what could we try next?  how did you work it out?  count out, share out, left, left over  number sentence  sign, operation | **Money**  Money, coin  penny, pence, pound  price, cost, total  buy, sell  spend, spent  pay, change  dear, costs more  cheap, costs less, cheaper  costs the same as  how much…? how many…?  **Measurement**  **Measures (general)**  measure  size  compare  guess, estimate  enough, not enough  too much, too little  too many, too few  nearly, roughly, close to, about the same as  just over, just under  **Length**  length, width, height, depth  long, short, tall  high, low  wide, narrow  deep, shallow  thick, thin  longer, shorter, taller, higher… and so on  longest, shortest, tallest, highest… and so on  far, near, close  metre  ruler, metre stick  **Mass**  weigh, weighs, balances  heavy/light, heavier/lighter, heaviest/lightest  balance, scales, weight  **Capacity**  full  half full  empty  holds  container |

**Year 1**

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| **Time**  All days of the week  All months of the year  seasons: spring, summer, autumn, winter  day, week, month, year  weekend, birthday, holiday  morning, afternoon, evening  night, midnight  bedtime, dinnertime, playtime  today, yesterday, tomorrow  before, after  next, last  now, soon, early, late  quick, quicker, quickest, quickly  fast, faster, fastest  slow, slower, slowest, slowly  old, older, oldest  new, newer, newest  takes longer, takes less time  hour, o’clock, half past  clock, watch, hands  how long ago?  how long will it be to…?  how long will it take to…?  how often?  always, never, often, sometimes, usually  once, twice  **Geometry - shape**  shape, pattern  flat, curved, straight, round  hollow, solid  corner  point, pointed  face, side, edge, end  sort  make, build, draw  **3D Shapes**  Cube, cuboid  pyramid  sphere  cone  cylinder  **2D Shapes**  circle  triangle  square  rectangle  star | **Patterns and symmetry**  size  bigger, larger, smaller  symmetrical  pattern  repeating pattern  match  **Geometry - position**  position  over, under, underneath  above, below  top, bottom, side  on, in  outside, inside  around  in front, behind  front, back  before, after  beside, next to  opposite  apart  between  middle, edge  centre  corner  direction  journey  left, right  up, down  forwards, backwards, sideways  across  close, far, near  along  through  to, from, towards, away from  movement  slide  roll  turn, whole turn, half turn  stretch, bend | **General**  same number/s  different number/s  missing number/s  number facts  number line, number track  number square  number cards  abacus  counters, cubes, blocks, rods  die, dice  dominoes  pegs, peg board  same way, different way  best way, another way  in order, in a different order  not  all, every, each |

**YEAR 2**

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| **Numbers and the number system**  **Counting, properties of numbers and number sequences**  number  zero, one, two, three… to twenty and beyond  zero, ten, twenty… one hundred  zero, one hundred, two hundred… one thousand  how many…?  count, count (up) to  count on (from, to)  count back (from, to)  count in ones, twos, threes, fours, fives, tens  more, less, many, few  odd, even  every other  how many times?  multiple of  sequence  continue  predict  pattern, pair, rule  **Place Value and ordering**  units, ones, tens, hundreds  digit  one-, two- or three-digit number  ‘teens’ number  place, place value  stands for, represents  exchange  equal to  Of **two** objects/amounts:   * greater, more, larger, bigger * less, fewer, smaller   Of **three** + objects/amounts:   * greatest, most, biggest, largest * least, fewest, smallest   one more, ten more  one less, ten less  compare, order  first, second, third… tenth… twentieth  twenty-first, twenty-second…  last, last but one  before, after, next  between, half-way between | **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  round, nearest, round to the nearest ten  **Number - fractions**  part, equal parts  fraction  one whole  one half, two halves  one quarter, two… three… four quarters  one third  non-unit fraction  **Calculations**  **Addition and subtraction**  , add, addition, more, plus  make, sum, total  altogether  score  double, near double  one more, two more... ten more... one hundred more  how many more to make…?  how many more is… than…?  how much more is…?  subtract, subtraction, take (away), minus  leave, how many are left/left over?  one less, two less… ten less… one hundred less  how many fewer is… than…?  how much less is…?  difference between  half, halve  equals, sign, is the same as  tens boundary | **Multiplication and division**  lots of, groups of  , times, multiply, multiplied by  multiple of  once, twice, three times… ten times…  times as (big, long, wide… and so on)  repeated addition  array  row, column  double, halve  share, share equally  one each, two each, three each…  group in pairs, threes… tens  equal groups of  , divide, divided by, divided into  left, left over  **Making decisions and reasoning**  pattern, puzzle  calculate, calculation  mental calculation  jotting  answer  right, correct, wrong  what could we try next?  how did you work it out?  number sentence  sign, operation, symbol  **Money**  coin  penny, pence, pound (£)  price, cost  buy, bought, sell, sold  spend, spent  pay  change  dear, costs more  cheap, costs less, cheaper  how much…? how many…?  total |

**Year 2**

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| **Measurement**  **Measures (general)**  measure  size  compare  measuring scale  guess, estimate  enough, not enough  too much, too little  too many, too few  nearly, roughly, about, close to, about the same as  just over, just under  temperature  thermometer  **Length**  length, width, height, depth  long, short, tall, high, low  wide, narrow, deep, shallow, thick, thin  longer, shorter, taller, higher… and so on  longest, shortest, tallest, highest… and so on  far, further, furthest, near, close  metre (*m*), centimetre (*cm*)  ruler, metre stick, tape measure  **Mass**  weigh, weighs, balances  heavy/light, heavier/lighter, heaviest/lightest  kilogram (*kg*), half-kilogram, gram (*g*)  balance, scales, weight  **Capacity**  capacity  full, half full, empty  holds, contains  litre (*l* ), half-litre, millilitre (*ml*)  Volume  Statistics  count, tally, sort, vote  graph, block graph, pictogram  represent  group, set, data  same, different  list, table  label, title  most popular, most common  least popular, least common | **Time**  All days of the week  All months of the year  All seasons  day, week, fortnight, month, year  weekend, birthday, holiday  morning, afternoon, evening, night, midnight  bedtime, dinnertime, playtime  today, yesterday, tomorrow  before, after  next, last  now, soon, early, late  quick, quicker, quickest, quickly  fast, faster, fastest  slow, slower, slowest, slowly  old, older, oldest  new, newer, newest  takes longer, takes less time  how long ago? how long will it be to…?  how long will it take to…?  hour, minute, second  o’clock, half past, quarter to, quarter past  clock, watch, hands  digital/analogue clock/watch, timer  how often?  always, never, often, sometimes, usually  once, twice  **Geometry - Shape**  shape, pattern  flat, curved, straight  round  hollow, solid  corner  point, pointed  face, side, edge, end  sort  make, build, draw  surface  **3D SHAPES**  cube  cuboid  pyramid  sphere  cone  cylinder  **prism**  **2D SHAPES**  circle, circular  triangle, triangular | square  rectangle, rectangular  star  pentagon  hexagon  octagon  **Patterns and symmetry**  size  bigger, larger, smaller  symmetrical  line of symmetry  fold  match  mirror line, reflection  pattern  repeating pattern  **Geometry - Position, direction**  position  over, under, underneath  above, below  top, bottom, side  on, in  outside, inside  around  in front, behind  front, back  before, after  beside, next to  opposite  apart  between  middle, edge  centre  corner  direction  journey, route  left, right  up, down  higher, lower  forwards, backwards, sideways  across  close, far, near  along  through  to, from, towards, away from  rotation  clockwise, anti-clockwise  movement  slide  roll  whole turn, half turn, quarter turn  right angle  straight line  stretch, bend |

**Year 2**

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

**YEAR 3**

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| **Numbers and Place Value**  **Counting, properties of numbers and number sequences**  Number, numerals  zero, one, two, three… to twenty and beyond  zero, ten, twenty… one hundred  zero, one hundred, two hundred… one thousand  none  how many…?  count, count (up) to  count on (from, to)  count back (from, to)  count in multiples of …  more, less, many, few  odd, even  every other  how many times?  multiple of  sequence  continue  predict, pattern, pair, rule  relationship  **Place value and ordering**  units, ones, tens, hundreds  digit  one-, two- or three-digit number  ‘teens’ number  place, place value  stands for, represents  exchange  the same number as, as many as  equal to  Of **two** objects/amounts:  greater, more, larger, bigger  less, fewer, smaller  Of **three** or more objects/amounts:  greatest, most, biggest, largest  least, fewest, smallest  one, ten, one hundred more than  one, ten, one hundred less than  compare, order, size  first, second, third… tenth… twentieth  twenty-first, twenty-second…  last, last but one  before, after, next  between, half-way between | **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 (up or down)  nearest, round to the nearest ten  **Fractions**  part, equal parts  fraction  one whole  one half, two halves  one quarter, two… three… four quarters  one third, two thirds, three thirds  one tenth  unit, non-unit fraction  denominator  **Calculations**  **Addition and subtraction**  , add, addition, more, plus  make, sum, total  altogether  score  double, near double  one more, two more... ten more... one hundred more  how many more to make…?  how many more is… than…?  how much more is…?  subtract, subtraction, take (away), minus  leave, how many are left/left over?  one less, two less… ten less… one hundred less  how many fewer is… than…?  how much less is…?  difference between  half, halve  equals, sign, is the same as  tens boundary, hundreds boundary  columnar addition and subtraction | **Multiplication and division**  lots of, groups of  , times, multiply, multiplication, multiplied by  multiple of, product  once, twice, three times… ten times…  times as (big, long, wide… and so on)  repeated addition  array  row, column  double, halve  share, share equally  one each, two each, three each…  group in pairs  equal groups of  divide, division, divided by  remainder  positive integer scaling problem  **Making decidsions and reasoning**  pattern, puzzle  calculate, calculation  mental calculation  method  jotting  answer  right, correct, wrong  what could we try next?  how did you work it out?  number sentence  sign, operation, symbol, equation  **Money**  money  coin, note  penny, pence, pound (£)  price, cost  buy, bought, sell, sold  spend, spent  pay  change  dear, costs more, more/most expensive  cheap, costs less, cheaper, less/least expensive  how much…? how many…?  total, amount  value, worth |

**Year 3**

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| **Statistics**  count, tally, sort, vote  graph, block graph, pictogram  represent  group, set  list, chart, bar chart  table, frequency table  Carroll diagram, Venn diagram  label, title, axis, axes  diagram  most popular, most common  least popular, least common  **Measurement**  **Measures (general)**  measure  size  compare  measuring scale, division  guess, estimate  enough, not enough  too much, little, many, few  nearly, roughly, about, close to,  about the same as, approximately  just over, just under  **Length**  length, width, height, depth  long, short, tall, high, low  wide, narrow, deep, shallow, thick, thin  longer, shorter, taller, higher…  longest, shortest, tallest, highest… and so on  far, further, furthest, near, close  distance apart/between, distance to… from…  kilometre (*km*), metre (*m*), centimetre (*cm*)  mile  ruler, metre stick, tape measure  **Mass**  weigh, weighs, balances  heavy/light, heavier/lighter, heaviest/lightest  kilogram (*kg*), half-kilogram, gram (*g*)  balance, scales, weight  **Capacity**  capacity  full, half full, empty  holds, contains  litre (*l* ), half-litre, millilitre (*ml*)  container | **Time**  All days of the week  All months of the year  All seasons  day, week, fortnight, month, year, century  weekend, birthday, holiday  calendar, date  morning, afternoon, evening, night, midnight  am, pm  bedtime, dinnertime, playtime  today, yesterday, tomorrow  before, after  next, last  now, soon, early, late, earliest, latest  quick, quicker, quickest, quickly  fast, faster, fastest  slow, slower, slowest, slowly  old, older, oldest  new, newer, newest  takes longer, takes less time  how long ago? how long will it be to…?  how long will it take to…?  hour, minute, second  o’clock, half past, quarter to, quarter past  clock, watch, hands  digital/analogue clock/watch, timer  how often?  always, never, often, sometimes, usually  once, twice  **Patterns and symmetry**  size  bigger, larger, smaller  symmetrical  line of symmetry  fold, match  mirror line, reflection  pattern  repeating pattern  **Geometry - Position**  position  over, under, underneath  above, below  top, bottom, side  on, in  outside, inside, around  in front, behind  front, back  before, after  beside, next to  opposite, apart, between | middle, edge  centre, corner  direction  journey, route, map, plan  left, right, up, down  higher, lower  forwards, backwards, sideways  across  close, far, near  along, through  to, from, towards, away from  ascend, descend  grid, row, column  clockwise, anti-clockwise  compass point  north, south, east, west  horizontal, vertical, diagonal  movement  slide, roll  whole turn, half turn, quarter turn  angle, …is a greater/smaller angle than  right angle  straight line  stretch, bend  **Geometry – shape**  shape, pattern  flat, curved, straight  round  hollow, solid  point, pointed  face, side, edge, end  sort  make, build, draw  surface  right-angled  vertex, vertices  layer, diagram  **3D shapes**  Cube, cuboid  pyramid  sphere, hemi-sphere  cone  cylinder  prism  **2D shapes**  circle, circular, semi-circle  triangle, triangular  square  rectangle, rectangular  star  pentagon, pentagonal  hexagon, hexagonal  octagon, octagonal  quadrilateral |

**Year 3**

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

**YEAR 4**

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| **Numbers and place value**  **Place value, ordering and rounding**  units, ones, tens, hundreds, thousands, ten thousand, hundred thousand, million  digit, one-, two-, three- or four-digit number  numeral  ‘teens’ number  place, place value  stands for, represents  equal to  exchange  the same number as, as many as  Of **two** objects/amounts:  >, greater than, more than, larger than, bigger than  <, less than, fewer than, smaller than  Of **three** or more objects/amounts:  greatest, most, largest, biggest  least, fewest, smallest  one… ten… one hundred… one thousand more/less  compare, order, size  first… tenth… twentieth  last, last but one  before, after, next  between, half-way between  guess how many, estimate  nearly, roughly, close to, about the same as  approximate, approximately  just over, just under  exact, exactly  too many, too few, enough, not enough  round (up or down), nearest  round to the nearest ten  round to the nearest hundred  integer, positive, negative  above/below zero, minus  Roman numerals to 100  **Properties of numbers and number sequences**  number, count, how many…?  odd, even  how many times?  multiple of  digit  next, consecutive | sequence  continue  predict  pattern, pair, rule  relationship  sort, classify, property  **Number - Fractions and decimals**  part, equal parts  fraction  denominator  numerator  unit, non-unit fraction  one whole  half, quarter, eighth  ones, tenth, hundredth  third, sixth  fifth, tenth, twentieth  proportion, in every, for every  decimal, decimal fraction  decimal equivalent  decimal point, decimal place  **Calculations**  **Addition and subtraction**  add, addition, more, plus, increase  sum, total, altogether  score  double, near double  how many more to make…?  subtract, subtraction, take (away), minus, decrease  leave, how many are left/left over?  difference between  half, halve  how many more/fewer is… than…?  how much more/less is…?  equals, sign, is the same as  tens boundary, hundreds boundary  inverse  columnar addition and subtraction | **Multiplication and division**  lots of, groups of  times, multiply, multiplication, multiplied by  multiple of, product  once, twice, three times… ten times…  times as (big, long, wide… and so on)  repeated addition  array  row, column  double, halve  share, share equally  one each, two each, three each…  group in pairs, threes… tens  equal groups of  divide, division, divided by, divided into  remainder  factor, quotient, divisible by  inverse  scaling |

**Year 4**

|  |  |  |
| --- | --- | --- |
| **Making decisions and reasoning**  pattern, puzzle  calculate, calculation  mental calculation  method  jotting  answer  right, correct, wrong  what could we try next?  how did you work it out?  number sentence  sign, operation, symbol, equation  **Money**  money  coin, note  penny, pence, pound (£)  price, cost  buy, bought, sell, sold  spend, spent  pay  change  dear, costs more, more/most expensive  cheap, costs less, cheaper, less/least expensive  how much…? how many…?  total, amount  value, worth  **Statistics**  count, tally, sort, vote  survey, questionnaire, data  graph, block graph, pictogram  represent  group, set  list, chart, bar chart, tally chart  table, frequency table  Carroll diagram, Venn diagram  label, title, axis, axes  diagram  most popular, most common  least popular, least common | **Measurement**  **Measures (general)**  measure, measurement  size  compare  unit, standard unit  metric unit, imperial unit  measuring scale, division  guess, estimate  enough, not enough  too much, too little  too many, too few  nearly, roughly, about, close to  about the same as, approximately  just over, just under  **Length**  length, width, height, depth, breadth  long, short, tall, high, low  wide, narrow, deep, shallow, thick, thin  longer, shorter, taller, higher… and so on  longest, shortest, tallest, highest… and so on  far, further, furthest, near, close  distance apart/between, distance to… from…  edge, perimeter  kilometre (*km*), metre (*m*)  centimetre (*cm*), millimetre (*mm*)  mile  ruler, metre stick, tape measure  **Mass**  mass: big, bigger, small, smaller, balances  weight: heavy/light, heavier/lighter, heaviest/lightest  weigh, weighs  kilogram (*kg*), half-kilogram, gram (*g*)  balance, scales  **Capacity**  capacity  full, half full  empty  holds, contains  litre (*l* ), half-litre, millilitre (*ml*)  pint  container, measuring cylinder | **Area**  area, covers, surface  square centimetre (*cm2*)  perimeter  **rectilinear**  **Time**  time  days of the week: Monday, Tuesday…  months of the year: January, February…  seasons: spring, summer, autumn, winter  day, week, fortnight, month  year, leap year, century, millennium  weekend, birthday, holiday  calendar, date, date of birth  morning, afternoon, evening, night  am, pm, noon, midnight  today, yesterday, tomorrow  before, after, next, last  now, soon, early, late, earliest, latest  quick, quicker, quickest, quickly  fast, faster, fastest, slow, slower, slowest, slowly  old, older, oldest, new, newer, newest  takes longer, takes less time  how long ago? how long will it be to…?  how long will it take to…?  timetable, arrive, depart  hour, minute, second  o’clock, half past, quarter to, quarter past  clock, watch, hands  digital/analogue clock/watch, timer  how often?  always, never, often, sometimes, usually  Roman numerals |

**Year 4**

|  |  |  |
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| **Geometry – Shape**  shape, pattern  flat, line  curved, straight, round  point, pointed  face, side, edge, surface  sort  make, build, construct, draw, sketch  centre, radius, diameter  net  angle, right-angled  base, square-based  vertex, vertices  layer, diagram  regular, irregular  concave, convex  open, closed  geometric shapes  acute, obtuse  regular, irregular  polygon  **3D Shapes**  3D, three-dimensional  Cube, cuboid  pyramid  sphere, hemi-sphere, spherical  cone  cylinder, cylindrical  prism  tetrahedron, polyhedron  **2D Shapes**  2D, two-dimensional  circle, circular, semi-circle  triangle, triangular  equilateral triangle, isosceles triangle  square  rectangle, rectangular, oblong  pentagon, pentagonal  hexagon, hexagonal  heptagon  octagon, octagonal  polygon  quadrilateral  parralellogram  rhombus  trapezium  **Patterns and symmetry**  bigger, larger, smaller  symmetrical  line of symmetry, line symmetry  fold, match  mirror line, reflection, reflect  pattern, repeating pattern, translation | **Geometry - position**  over, under, underneath  above, below, top, bottom, side  on, in, outside, inside, around  in front, behind, front, back  before, after, beside, next to  opposite, apart  between, middle, edge, centre  corner  direction  journey, route, map, plan  left, right  up, down, higher, lower  forwards, backwards, sideways, across  close, far, near  along, through, to, from, towards, away from  ascend, descend  grid  row, column  origin, coordinates  clockwise, anti-clockwise  compass point, north, south, east, west (N, S, E, W)  north-east, north-west, south-east, south-west  (NE, NW, SE, SW)  horizontal, vertical, diagonal  movement  slide, roll  whole turn, half turn, quarter turn, rotate  angle, …is a greater/smaller angle than  right angle  degree  straight line  stretch, bend  ruler, set square  angle measurer, compasses  quadrant | **General**  same, different  missing number/s  number facts, number pairs, number bonds  greatest value, least value  number line, number track  number square, hundred square  number cards, number grid  abacus  counters, cubes, blocks, rods  die, dice  dominoes  pegs, peg board, pin board  geo-strips  same way, different way  best way, another way  in order, in a different order  not  all, every, each |

**YEAR 5**

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| **Numbers and place value**  **Place value ordering and rounding**  units, ones, tens, hundreds, thousands  ten thousand, hundred thousand, million  digit, one-, two-, three- or four-digit number  numeral  ‘teens’ number  place, place value  stands for, represents  exchange  the same number as, as many as  equal to  Of **two** objects/amounts:  >, greater than, more than, larger than, bigger than  <, less than, fewer than, smaller than  , greater than or equal to  , less than or equal to  Of **three** or more objects/amounts:  greatest, most, largest, biggest  least, fewest, smallest  one… ten… one hundred… one thousand more/less  compare, order, size  ascending/descending order  first… tenth… twentieth  last, last but one  before, after, next  between, half-way between  guess how many, estimate  nearly, roughly, close to, about the same as  approximate, approximately  , is approximately equal to  just over, just under  exact, exactly  too many, too few, enough, not enough  round (up or down), nearest  round to the nearest ten/hundred  round to the nearest thousand  integer, positive, negative  above/below zero, minus  **Roman numerals to 1000(m)** | **Properties of numbers and umber sequences**  number, count, how many…?  odd, even  every other  how many times?  multiple of  digit  next, consecutive  sequence  continue  predict  pattern, pair, rule  relationship  sort, classify, property  formula  divisible (by), divisibility, factor  square number  one squared, two squared… (12, 22…)  **Number – Fractions, decimals, percentages, ratio and proportion**  part, equal parts  fraction, proper/improper fraction  mixed number  numerator, denominator  equivalent, reduced to, cancel  one whole  half, quarter, eighth  third, sixth, ninth, twelfth  fifth, tenth, twentieth, hundredth  proportion, ratio  in every, for every  to every, as many as  decimal, decimal fraction  decimal point, decimal place  percentage, per cent, %  **Calculations**  **Addition and subtraction**  add, addition, more, plus, increase  sum, total, altogether  score  double, near double  how many more to make…?  subtract, subtraction, take (away), minus, decrease  leave, how many are left/left over?  difference between  half, halve  how many more/fewer is… | how much more/less is…?  equals, sign, is the same as  tens boundary, hundreds boundary  units boundary, tenths boundary  inverse  **columnar addition, subtraction**  **Multiplication and division**  lots of, groups of  times, multiply, multiplication, multiplied by  multiple of, product  once, twice, three times… ten times…  times as (big, long, wide… and so on)  repeated addition  array  row, column  double, halve  share, share equally  one each, two each, three each…  group in pairs, threes… tens  equal groups of  divide, division, divided by, divided into  remainder  factor, quotient, divisible by  inverse  **prime number**  **prime factor**  **composite number**  **square number**  **cubed number**  **Making decisions and reasoning**  pattern, puzzle  calculate, calculation  mental calculation  method, strategy  jotting  answer  right, correct, wrong  what could we try next?  how did you work it out?  number sentence  sign, operation, symbol, equation |

**Year 5**

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| **Money**  money  coin, note  penny, pence, pound (£)  price, cost  buy, bought, sell, sold  spend, spent  pay  change  dear, costs more, more/most expensive  cheap, costs less, cheaper, less/least expensive  how much…? how many…?  total, amount, value, worth  discount  currency  **STATISTICS**  count, tally, sort, vote  survey, questionnaire  data, database  graph, block graph, line graph  pictogram,  represent  group, set  list, chart, bar chart, bar line chart  tally chart  table, frequency table  Carroll diagram, Venn diagram  label, title, axis, axes  diagram  most popular, most common  least popular, least common  mode, range  maximum/minimum value  classify, outcome  **Measurement**  **Measure (general)**  measure, measurement  size  compare  unit, standard unit  metric unit, imperial unit  measuring scale, division  guess, estimate  enough, not enough  too much, too little  too many, too few  nearly, roughly, about, close to  about the same as, approximately  just over, just under | **Length**  length, width, height, depth, breadth  long, short, tall, high, low  wide, narrow, deep, shallow, thick, thin  longer, shorter, taller, higher… and so on  longest, shortest, tallest, highest… and so on  far, further, furthest, near, close  distance apart/between, distance to… from…  edge, perimeter  kilometre (*km*), metre (*m*)  centimetre (*cm*), millimetre (*mm*)  inches, mile  ruler, metre stick, tape measure  **Mass**  mass: big, bigger, small, smaller, balances  weight: heavy/light, heavier/lighter, heaviest/lightest  weigh, weighs  kilogram (*kg*), half-kilogram, gram (*g*)  balance, scales  **Capacity**  full, half full, empty  holds, contains  litre (*l* ), half-litre, millilitre (*ml*)  pint, gallon  container, measuring cylinder  **Area**  area, covers, surface  square centimetre (*cm2*), square metre (*m2*)  square millimetre (*mm2*)  **Time**  days of the week: Monday, Tuesday…  months of the year: January, February…  seasons: spring, summer, autumn, winter  day, week, fortnight, month  year, leap year, century, millennium  weekend, birthday, holiday  calendar, date, date of birth  morning, afternoon, evening, night  am, pm, noon, midnight | today, yesterday, tomorrow  before, after, next, last  now, soon, early, late, earliest, latest  quick, quicker, quickest, quickly  fast, faster, fastest, slow, slower, slowest, slowly  takes longer, takes less time  how long ago? how long will it be to…?  how long will it take to…?  timetable, arrive, depart  hour, minute, second  o’clock, half past, quarter to, quarter past  clock, watch, hands  digital/analogue clock/watch, timer  24-hour clock, 12-hour clock  how often?  always, never, often, sometimes, usually  **Geometry Shape**  shape, pattern  flat, line, curved, straight  round  hollow, solid  corner  point, pointed  face, side, edge, end  sort  make, build, construct, draw, sketch  centre, radius, diameter  net  surface  angle, right-angled  congruent  base, square-based  vertex, vertices  layer, diagram  regular, irregular  concave, convex  open, closed  **degree**  **3D Shapes**  3D, three-dimensional  cube, cuboid  pyramid  sphere, hemi-sphere, spherical  cone  cylinder, cylindrical  prism  tetrahedron, polyhedron, octahedron |

**Year 5**

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| **2D Shapes**  2D, two-dimensional  circle, circular, semi-circle  triangle, triangular  equilateral triangle, isosceles triangle, scalene triangle  square  rectangle, rectangular, oblong  pentagon, pentagonal  hexagon, hexagonal  heptagon  octagon, octagonal  polygon  quadrilateral  **Patterns and symmetry**  bigger, larger, smaller  symmetrical  line of symmetry, axis of symmetry  line, reflective symmetry  fold, match  mirror line, reflection, reflect  pattern, repeating pattern, translation  **Geometry - position**  over, under, underneath  above, below, top, bottom, side  on, in, outside, inside, around  in front, behind, front, back  before, after, beside, next to  opposite, apart  between, middle, edge, centre  direction  journey, route, map, plan  left, right  up, down, higher, lower  forwards, backwards, sideways, across  close, far, near  along, through, to, from, towards, away from  ascend, descend  grid, row, column  origin, coordinates  clockwise, anti-clockwise  compass point, north, south, east, west (N, S, E, W)  north-east, north-west, south-east, south-west  (NE, NW, SE, SW)  horizontal, vertical, diagonal  parallel, perpendicular  x-axis, y-axis  quadrant | movement  slide, roll  whole, half quarter turn  rotate, rotation  reflection  angle, …is a greater/smaller  right angle, acute, obtuse  degree  straight line  ruler, set square  angle measurer, compasses, protractor  **General**  same, different  missing number/s  number facts, number pairs, number bonds  greatest value, least value  number line, number track  number square, hundred square  number cards, number grid  abacus  counters, cubes, blocks, rods  die, dice, spinner  dominoes  pegs, peg board, pin board  geo-strips  same way, different way  best way, another way  in order, in a different order  not  all, every, each |  |

**YEAR 6**

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| **Numbers and place value**  **Place value, ordering and rounding**  units, ones, tens, hundreds, thousands  ten thousand, hundred thousand, million  digit, one-, two-, three- or four-digit number  numeral  ‘teens’ number  place, place value  stands for, represents  exchange  equal to  Of **two** objects/amounts:  >, greater than, more than, larger than, bigger than  <, less than, fewer than, smaller than  , greater than or equal to  , less than or equal to  Of **three** or more objects/amounts:  greatest, most, largest, biggest  least, fewest, smallest  one… ten… one hundred… one thousand more/less  compare, order, size  ascending/descending order  first… tenth… twentieth  last, last but one  before, after, next  between, half-way between  guess how many, estimate  close to, about the same as  approximate, approximately  is approximately equal to  just over, just under  exact, exactly  too many, too few, enough, not enough  round (up or down), nearest  round to the nearest ten/hundred/thousand  integer, positive, negative  above/below zero, minus  **Properties of numbers and number sequences**  number, count, how many…?  odd, even  every other  how many times?  multiple of  digit | next, consecutive  sequence  continue  predict  pattern, pair, rule  relationship  sort, classify, property  formula  divisible (by), divisibility, factor, factorise  square number  one squared, two squared… (12, 22…)  prime, prime factor  **Number – Fractions, decimals, percentages, ratio and proportion**  part, equal parts  fraction, proper/improper fraction  mixed number  numerator, denominator  equivalent, reduced to, cancel  one whole  half, quarter, eighth  third, sixth, ninth, twelfth  fifth, tenth, twentieth  hundredth, thousandth  proportion, ratio  in every, for every  to every, as many as  decimal, decimal fraction  decimal point, decimal place  percentage, per cent, %  integer  scale factor  pie charts  **Calculations**  **Addition and subtraction**  add, addition, more, plus, increase  sum, total, altogether  double, near double  how many more to make…?  subtract, subtraction, take (away), minus, decrease  leave, how many are left/left over?  difference between  half, halve  how many more/fewer is… than…?  how much more/less is…?  equals, sign, is the same as  tens boundary, hundreds | boundary  units boundary, tenths boundary  inverse  **columnar addition and subtraction**  **Multiplication and division**  lots of, groups of  times, multiply, multiplication, multiplied by  long multiplication  multiple of, product  once, twice, ten times…  times as (big, long, wide…  repeated addition  array, row, column  double, halve  share, share equally  one each, two each..  group in pairs, threes… tens  equal groups of  divide, division, divided by, divided into  long division  remainder  factor, quotient, divisible by  inverse  factor  **Solving Problems**  pattern, puzzle  calculate, calculation  mental calculation  method, strategy  jotting, answer  right, correct, wrong  what could we try next?  how did you work it out?  number sentence  sign, operation, symbol, equation  **Money**  Money, coin, note  penny, pence, pound (£)  price, cost  buy, bought, sell, sold  spend, spent  pay, change  dear, costs more, more/most expensive  cheap, costs less, cheaper, less/least expensive  how much…? how many…?  total, amount, value, worth  discount, profit, loss  currency |

**Year 6**

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| **Statistics**  count, tally, sort, vote  survey, questionnaire  data, database  graph, block graph, line graph  pictogram,  represent, group, set  list, chart, bar chart, bar line  tally chart  table, frequency table  Carroll diagram, Venn diagram  label, title, axis, axes  diagram  most popular, most common  least popular, least common  mode, range, mean, average, median  statistics, distribution  maximum/minimum value  classify, outcome  **Measurement (General)**  measure, measurement  size  compare  unit, standard unit  metric unit, imperial unit  measuring scale, division  guess, estimate  enough, not enough  too much, too little  too many, too few  nearly, roughly, about, close to  about the same as, approximately  just over, just under  **Length**  length, width, height, depth, breadth  long, short, tall, high, low  wide, narrow, deep, shallow, thick, thin  longer, shorter, taller, higher…  longest, shortest, tallest, highest…  far, further, furthest, near, close  distance apart/between, distance to… from…  edge, perimeter, circumference  kilometre (*km*), metre (*m*)  centimetre (*cm*), millimetre (*mm*)  mile, yard, feet, foot, inch  ruler, metre stick, tape measure, compasses  cubic mm, cm, m, Km, | **Mass**  mass: big, bigger, small, smaller, balances  weight: heavy/light, heavier/lighter, heaviest/lightest  weigh, weighs  tonne, kilogram (*kg*), half-kilogram, gram (*g*)  pound (*lb*), ounce (*oz*)  balance, scales  **Capacity**  full, half full, empty  holds, contains  litre (*l* ), half-litre, centilitre (*cl*), millilitre (*ml*)  pint, gallon  container, measuring cylinder  **Area**  area, covers, surface  square centimetre (*cm2*), square metre (*m2*)  square millimetre (*mm2*)  **perimeter**  **Time**  All days of the week  All months of the year  All seasons  day, week, fortnight, month  year, leap year, century, millennium  weekend, birthday, holiday  calendar, date, date of birth  morning, afternoon, evening, night  am, pm, noon, midnight  today, yesterday, tomorrow  before, after, next, last  now, soon, early, late, earliest, latest  quick, quicker, quickest, quickly  fast, faster, fastest, slow, slower, slowest, slowly  old, older, oldest, new, newer, newest  takes longer, takes less time  how long ago?  how long until?  timetable, arrive, depart  hour, minute, second  o’clock, half past, quarter to, quarter past  clock, watch, hands  digital/analogue clock/watch  24-hour clock, 12-hour clock  Greenwich Mean Time, British Summer Time | **Geometry - shape**  shape, pattern  flat, line  curved, straight  round  hollow, solid  point, pointed  face, side, edge, end  make, build, construct, draw, sketch, sort  centre, radius, diameter  circumference, concentric, arc  net  surface  , right-angled  congruent  intersecting, intersection  plane  base, square-based  vertex, vertices  layer, diagram  regular, irregular  concave, convex  open, closed  tangram  **geometric**  **3D Shapes**  3D, three-dimensional  cube, cuboid  pyramid  sphere, hemi-sphere, spherical  cone  cylinder, cylindrical  prism  tetrahedron, polyhedron, octahedron, dodecahedron  **2D Shapes**  2D, two-dimensional  circle, circular, semi-circle  triangle, triangular  equilateral triangle, isosceles triangle, scalene triangle  square, rhombus  rectangle, rectangular, oblong  pentagon, pentagonal  hexagon, hexagonal  heptagon  octagon, octagonal  polygon  quadrilateral  kite  parallelogram, trapezium |

**Year 6**

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| **Patterns and symmetry**  size  bigger, larger, smaller  symmetrical  line of symmetry, axis of symmetry  line symmetry, reflective symmetry, fold  match  mirror line, reflection, reflect  pattern, repeating pattern, translation  **Geometry - position**  over, under, underneath  above, below, top, bottom, side  on, in, outside, inside, around  in front, behind, front, back  before, after, beside, next to  opposite, apart  between, middle, edge, centre  direction  journey, route, map, plan  left, right  up, down, higher, lower  forwards, backwards, sideways, across  close, far, near  along, through, to, from, towards, away from  ascend, descend  grid, row, column  origin, coordinates  clockwise, anti-clockwise  compass point, north, south, east, west (N, S, E, W)  north-east, north-west, south-east, south-west  (NE, NW, SE, SW)  horizontal, vertical, diagonal  parallel, perpendicular  x-axis, y-axis  quadrant  movement  slide, roll  whole turn, half turn, quarter turn, rotate, rotation  angle, …is a greater/smaller  right angle, acute, obtuse, reflex  degree  straight line  ruler, set square  angle measurer, compasses, protractor | **General**  same, identical, different  missing number/s  number facts, number pairs, number bonds  greatest value, least value  number line, number track  number square, hundred square  number cards, number grid  abacus  counters, cubes, blocks, rods  die, dice, spinner  dominoes  pegs, peg board, pin board  geo-strips  same way, different way  best way, another way  in order, in a different order  not  all, every, each |  |