**Vocabulary Progression in Mathematics**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [Place Value](#PlaceValue) | [Addition and Subtraction](#AdditionandSubtraction) | [Multiplication and Division](#Multiplication) | [Fractions](#Fractions) | [Measurement](#Measure) | [Geometry (Properties of shape)](#Shapeprop) | [Geometry (Position and Direction)](#Position) | [Statistics](#Stats) | [Ratio and Proportion](#Ratio) | [Algebra](#Algeb) |

**This chart shows new vocabulary introduced in each year group**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Reception** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| equation  number  size  compare  order  between  halfway way between  one more/ less  first, second, third...  more/ less  bigger/ larger/ smaller  more/ fewer  more than  less than  the same as | equation  number sentence  number  digit  one-digit  two-digit  partition  ones  tens  symbol  part  whole  equal to  equal to =  more than <  less than >  fewer than  same (as)  different  most/ least  greatest/ biggest smallest  how many  odd  even  count on  count back  forwards  backwards  number line  number track  hundred square  set  sort  order  identify  count  describe  represent | 10 more/ 10 less  multiples  greater  lesser  fewest  pair  count up  count to  between  above  below  recombine  represents  value  position  consecutive  estimate  generalise  quantity | hundreds  100 more/ less | thousands  1000 more/ less  negative  positive  Roman numerals (I to C)  round to the nearest | ten thousands  hundred thousands  millions  powers of 10 (C to M)  term-to-term rule | ten million  degree of accuracy  interval |
| add  addend  total  sum  more  make  altogether  equals  subtract  minuend  subtrahend  have left  takeaway  how many  few  less | equation  number sentence  equal to  symbol  operation  part  whole  add  plus  minus  how many more  set  addition  subtraction  facts  represent | difference  inverse  commutative  associative  digit  generalise  quantity  score | column method  exchange  complements to 100  place holder  prove |  |  | brackets  order of operations |
| share equally  group  double  halve  fair share  not fair share | odd  even  equal  unequal  groups  facts  represent | multiply  operation  multiples  factor (5 x 2 = 10)  product (5 x 2 = 10)  multiplicand  commutative  inverse  sharing  dividend (10 ÷ 2 = 5)  divisor (10 ÷ 2 = 5)  quotient (number of groups/numbers in each group) (10 ÷ 2 = 5)  remainder  lots/ groups of  how many  total  sum  scale  array  repeated addition  column  row  quantity  inequality  generalise  score | \_\_\_ times as (e.g. four times as long)  prove | factor pairs  factorise  distributive  associative  derive  divisible  divisibility  short division | factors  multiples  prime numbers  composite (non-prime)  square numbers (²)  cubed numbers (³)  index notation  short multiplication  rate | approximate/ approximately ≈  long division  long multiplication  order of magnitude |
| whole | share  equal  unequal  part  groups of | half  quarter  lots/ groups of  numerator  denominator  equivalent  fraction notation  represent | tenths  unit fraction  non-unit fraction  prove | common equivalent fractions  hundredths  decimal equivalent | mixed number  proper fraction  improper fraction  thousandths  per cent (%)  number of parts per one hundred  complements of 1  simplify | recurring decimal  terminating decimal |
| **Length/ Height**  tall/ short  high/ low  long/ short  taller/ shorter  higher/ lower  longer/ shorter  wide/narrow  wider/narrower | **Length and Height**  tallest/ shortest  highest/ lowest  longest/ shortest  widest/ narrowest  same (as)/ different  further/ went less  biggest/ smallest | **Length and Height**  unit of measure  length  height  distance  metre (m)  centimetre (cm)  half as (e.g. high)  twice as (e.g. wide)  maximum  minimum  measure  represent | **Length and Height**  millimetre (mm)  compare  \_\_\_ times as (e.g. five times as high) | **Length and Height**  perimeter  area  convert | **Length and Height**  metric units  imperial units  foot/ feet  yard  square millimetre (mm²)  square centimetre (cm²)  square meter (m²) | **Length and Height**  cubic centimetres (cm³)  cubic metres (m³)  miles  miles per hour |
| **Mass and Weight**  Heavy/light  Heavier than/ lighter than | **Mass and Weight**  Heaviest/lightest | **Mass and Weight**  weight  mass  kilogram (kg)  gram (g)  maximum  minimum  measure  represent | **Mass and Weight**  compare  \_\_\_ times as (e.g. five times as high) | **Mass and Weight**  convert | **Mass and Weight**  metric units  imperial units  ounce |  |
| **Capacity and Volume**  full/ empty  fuller/ emptier  holds  container | **Capacity and Volume**  fullest/ emptiest  less/ more (for uncountable nouns e.g. water)  double/ half  full/empty  half/ quarter full | **Capacity and Volume**  litre (l)  millilitre (ml)  maximum  minimum  measure  represent | **Capacity and Volume**  compare  \_\_\_ times as (e.g. five times as high) | **Capacity and Volume**  convert | **Capacity and Volume**  metric units  imperial units  gallon | **Capacity and Volume**  volume |
| **Temperature**  hot/ cold  warm  hotter/warmer/ colder | **Temperature**  hottest/ coldest/ warmest | **Temperature**  temperature (ºC)  maximum  minimum  measure  represent | **Temperature**  compare  \_\_\_ times as (e.g. five times as high) | **Temperature**  convert | **Temperature**  metric units  imperial units |  |
| **Money**  how much  money  pence (p)  price  spend/spent  pay | **Money**  costs  amount  total cost | **Money**  pounds (£)  change  maximum  minimum  measure  represent | **Money**  compare  \_\_\_ times as (e.g. five times as high) | **Money**  convert |  |  |
| **Time**  quick/quicker/ quickly  fast/ faster  slow/ slower/ slowly  old/ older  new/ newer  big/ bigger  small/ smaller  young/younger  new/newer  takes longer  takes less time  days of the week  day  weekend  birthday/ holiday  bedtime/ playtime/ dinnertime  morning/ afternoon/ evening  today/ yesterday/ tomorrow  now/ next/ soon  early/ late | **Time**  quickest/ fastest/ slowest  oldest/ newest/ youngest  biggest/ smallest  earlier/ later  first/ second/ third  o’clock  half past  year  month | **Time**  half past  quarter past  quarter to  hour  minute  seconds  analogue  chronological  maximum  minimum  measure  represent | **Time**  seconds  minutes  hours  am/pm  noon  midnight  leap year  digital  compare | **Time**  convert |  |  |
| vertex  sides (2d)  edges (3d)  shape  pattern  flat  curved  straight  round  hollow/solid  make/build/draw  size  symmetrical pattern  repeating pattern  match  square  rectangle  circle  triangle  cube  pyramid  sphere | 2 dimensional (2D)  cuboids  cylinder  cone  kite  3 dimensional (3D) | surface  oblong  pentagon  heptagon  octagon  dodecahedron  polygon  lines of symmetry  axis of symmetry  vertices  faces  prisms  rectangular  triangular  square-based  triangular-based | angle  degree  right angle  angle at point on a line  composite shape  horizontal  vertical  parallel  perpendicular  adjacent  polyhedron | acute  obtuse  regular  irregular  isosceles  equilateral  scalene  parallelograms  rhombus  trapezium  protractor  rectilinear | Reflex  markings | radius  diameter  circumference  angle at a point  net  dissect |
| forwards/backwards  up/down  sideways/across  next to/ beside  close/ near/ far  along/through  top/bottom  above/ below  on  in/out  between/ middle  outside/inside  around  in front/ behind front/ back  middle/edge/corner  direction  slide/roll/turn  stretch/bend  whole turn  half turn  light/ride  above/below  on top of | | quarter turn  three-quarter turn  clockwise  anticlockwise  position  rotation |  | coordinates  translation  left / right  up/ down  quadrant  scales  axes  plot | reflection  reflection symmetry | coordinate plane |
| count  sort  group  set  list | | diagram  pictogram  tally chart  block diagram  Carroll diagram  table  record  interpret  organise  compare  frequency |  | time graphs  line graphs |  | pie charts  mean (average) |
|  |  |  |  |  |  | percentage  scale factor  sharing  grouping  multiples  ratio  ration notation |
|  |  |  |  |  |  | formulae  linear number sequence  express  unknown  variables  expression |