**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** |
| equationnumbersizecompareorderbetweenhalfway way betweenone more/ lessfirst, second, third...more/ lessbigger/ larger/ smallermore/ fewermore thanless thanthe same as | equationnumber sentencenumberdigit one-digittwo-digitpartitiononestenssymbolpartwholeequal toequal to =more than <less than >fewer thansame (as)differentmost/ leastgreatest/ biggest smallesthow manyoddevencount oncount backforwardsbackwardsnumber linenumber trackhundred squaresetsortorderidentifycountdescriberepresent | 10 more/ 10 lessmultiplesgreaterlesserfewestpaircount upcount tobetweenabovebelowrecombinerepresentsvaluepositionconsecutive estimategeneralisequantity | hundreds100 more/ less  | thousands1000 more/ lessnegativepositiveRoman numerals (I to C)round to the nearest  | ten thousandshundred thousandsmillions powers of 10 (C to M)term-to-term rule | ten milliondegree of accuracyinterval |
| addaddendtotalsummoremakealtogetherequalssubtractminuendsubtrahendhave lefttakeawayhow manyfewless | equationnumber sentenceequal tosymboloperationpart wholeaddplusminushow many moresetadditionsubtractionfactsrepresent | differenceinversecommutative associativedigit generalisequantityscore | column methodexchangecomplements to 100place holderprove |  |  | bracketsorder of operations |
| share equallygroupdouble halvefair sharenot fair share | oddevenequalunequalgroupsfactsrepresent | multiplyoperationmultiplesfactor (5 x 2 = 10)product (5 x 2 = 10)multiplicandcommutativeinversesharingdividend (10 ÷ 2 = 5)divisor (10 ÷ 2 = 5)quotient (number of groups/numbers in each group) (10 ÷ 2 = 5)remainderlots/ groups of how manytotalsum scalearrayrepeated additioncolumnrowquantityinequalitygeneralisescore | \_\_\_ times as (e.g. four times as long)prove | factor pairsfactorisedistributiveassociative derivedivisible divisibilityshort division | factorsmultiplesprime numberscomposite (non-prime)square numbers (²)cubed numbers (³)index notationshort multiplicationrate | approximate/ approximately ≈long divisionlong multiplicationorder of magnitude |
| whole | shareequalunequalpartgroups of  | halfquarterlots/ groups of numeratordenominatorequivalentfraction notationrepresent | tenthsunit fractionnon-unit fractionprove | common equivalent fractionshundredthsdecimal equivalent | mixed numberproper fractionimproper fractionthousandthsper cent (%)number of parts per one hundredcomplements of 1simplify | recurring decimalterminating decimal |
| **Length/ Height**tall/ shorthigh/ lowlong/ shorttaller/ shorterhigher/ lowerlonger/ shorterwide/narrowwider/narrower | **Length and Height**tallest/ shortesthighest/ lowestlongest/ shortestwidest/ narrowestsame (as)/ differentfurther/ went lessbiggest/ smallest | **Length and Height**unit of measurelengthheightdistancemetre (m)centimetre (cm)half as (e.g. high)twice as (e.g. wide)maximumminimummeasurerepresent | **Length and Height**millimetre (mm)compare\_\_\_ times as (e.g. five times as high) | **Length and Height**perimeterareaconvert | **Length and Height**metric unitsimperial unitsfoot/ feetyardsquare millimetre (mm²)square centimetre (cm²)square meter (m²) | **Length and Height**cubic centimetres (cm³)cubic metres (m³)milesmiles per hour |
| **Mass and Weight**Heavy/lightHeavier than/ lighter than  | **Mass and Weight**Heaviest/lightest | **Mass and Weight**weightmasskilogram (kg)gram (g)maximumminimummeasurerepresent | **Mass and Weight**compare\_\_\_ times as (e.g. five times as high) | **Mass and Weight**convert | **Mass and Weight**metric unitsimperial unitsounce |  |
| **Capacity and Volume**full/ empty fuller/ emptierholdscontainer | **Capacity and Volume**fullest/ emptiestless/ more (for uncountable nouns e.g. water)double/ halffull/emptyhalf/ quarter full | **Capacity and Volume**litre (l)millilitre (ml)maximumminimummeasurerepresent | **Capacity and Volume**compare\_\_\_ times as (e.g. five times as high) | **Capacity and Volume**convert | **Capacity and Volume**metric unitsimperial unitsgallon | **Capacity and Volume**volume |
| **Temperature**hot/ coldwarmhotter/warmer/ colder | **Temperature**hottest/ coldest/ warmest | **Temperature**temperature (ºC)maximumminimummeasurerepresent | **Temperature**compare\_\_\_ times as (e.g. five times as high) | **Temperature**convert | **Temperature**metric unitsimperial units |  |
| **Money**how muchmoneypence (p)pricespend/spentpay | **Money**costsamount total cost | **Money**pounds (£)changemaximumminimummeasurerepresent | **Money**compare\_\_\_ times as (e.g. five times as high) | **Money**convert |  |  |
| **Time**quick/quicker/ quicklyfast/ fasterslow/ slower/ slowlyold/ oldernew/ newerbig/ biggersmall/ smalleryoung/youngernew/newertakes longertakes less timedays of the weekdayweekendbirthday/ holidaybedtime/ playtime/ dinnertimemorning/ afternoon/ eveningtoday/ yesterday/ tomorrownow/ next/ soonearly/ late | **Time**quickest/ fastest/ slowestoldest/ newest/ youngestbiggest/ smallestearlier/ laterfirst/ second/ thirdo’clockhalf pastyearmonth | **Time**half pastquarter pastquarter tohourminutesecondsanaloguechronologicalmaximumminimummeasurerepresent | **Time**secondsminuteshoursam/pmnoonmidnightleap yeardigitalcompare | **Time**convert |  |  |
| vertexsides (2d)edges (3d)shapepatternflatcurvedstraightroundhollow/solid make/build/draw sizesymmetrical patternrepeating patternmatchsquarerectanglecircletrianglecubepyramid sphere | 2 dimensional (2D)cuboidscylinderconekite3 dimensional (3D) | surfaceoblongpentagonheptagonoctagondodecahedronpolygonlines of symmetryaxis of symmetryverticesfaces prisms rectangulartriangular square-basedtriangular-based | angledegreeright angleangle at point on a linecomposite shapehorizontalverticalparallelperpendicularadjacentpolyhedron | acuteobtuseregular irregularisoscelesequilateralscaleneparallelogramsrhombustrapezium protractorrectilinear | Reflexmarkings | radiusdiameter circumferenceangle at a pointnetdissect |
| forwards/backwardsup/downsideways/acrossnext to/ besideclose/ near/ faralong/throughtop/bottomabove/ belowonin/outbetween/ middleoutside/insidearoundin front/ behind front/ back middle/edge/cornerdirectionslide/roll/turnstretch/bendwhole turnhalf turnlight/rideabove/belowon top of | quarter turnthree-quarter turnclockwiseanticlockwisepositionrotation |  | coordinatestranslationleft / rightup/ downquadrantscales axesplot | reflectionreflection symmetry | coordinate plane |
| countsortgroupsetlist | diagrampictogramtally chartblock diagramCarroll diagramtablerecordinterpretorganisecomparefrequency |  | time graphsline graphs |  | pie chartsmean (average) |
|  |  |  |  |  |  | percentagescale factorsharing groupingmultiplesratioration notation |
|  |  |  |  |  |  | formulaelinear number sequenceexpressunknownvariablesexpression |