Vocabulary Progression in Mathematics

Number

| | | | |
|---|---|---|---|
| Reception | 1 less/1 less than<br>1 more/1 more than<br>big/bigger/biggest<br>count (up/down)<br>from/to<br>count/counting<br>count back (from, to)<br>count in ones<br>count on (from, to)<br>count out<br>how many...?<br>difference (between)<br>double/doubling<br>doubles<br>equal(s)<br>equal amounts/shares<br>even | few/fewer/fewest<br>first, second... tenth<br>five, 5<br>four, 4<br>great/greater/greatest<br>high/higher/highest<br>large/larger/largest<br>less<br>more<br>none<br>number<br>number bond<br>number cards<br>number facts<br>number line<br>number square<br>number track | odd<br>one, 1<br>one, two, three... twenty<br>pair(s)<br>part(s)<br>pattern(s)<br>repeating pattern(s)<br>same/same as<br>ten, twenty... one hundred<br>ten less/more<br>the same number as<br>three, 3<br>two, 2<br>zero |
| Year 1 | amount<br>bigger/smaller<br>count on/back/in<br>equal to<br>equivalent to<br>even<br>few/fewest<br>figure | great/greater/greatest<br>greater than<br>how many (more)...?<br>is the same value as<br>least<br>most | odd/even<br>one hundred<br>ones, twos, fives, tens<br>order/in order<br>pair<br>sequence<br>smallest |
| Year 2 | 1-digit number<br>2-digit number<br>digit | predict<br>quantity<br>set<br>tally | tens<br>turn<br>units<br>value |
| Year 3 | 3-digit number<br>factor (of) | fifties<br>number names to 1000 | one thousand<br>Roman numerals |
| Year 4 | 4-digit number<br>classify<br>consecutive<br>decimal<br>decimal number<br>decimal place<br>decimal point | horizontal<br>hundredths<br>increasing/decreasing<br>integer<br>magnitude<br>minus | negative numbers<br>number range<br>positive numbers<br>ten thousand<br>tenths<br>whole number |
| Year 5 | 5-digit number(s)<br>cubed<br>cubed number<br>divisible/divisibility<br>factor pair | formula<br>hundred thousand<br>one million<br>prime number<br>squared | square number<br>≤ less than or equal to<br>≥ greater than or equal to |
| Year 6 | digit total<br>factorise | figures<br>prime | prime factor |

Place Value and order

| | | | |
|---|---|---|---|
| Reception | after<br>as many as<br>backwards<br>between<br>decrease<br>digit | first<br>forwards<br>increase<br>last<br>next | ones<br>order<br>partition<br>parts of a number<br>size<br>ten(s) |
| Year 1 | base 10<br>before<br>compare<br>fewer<br>greater/greatest<br>halfway | hundred square<br>larger/largest<br>number(s)<br>number line<br>part | part-whole model<br>partition<br>smaller/smallest<br>total<br>unit(s)<br>whole |
| Year 2 | column<br>decrease<br>halfway between<br>higher<br>hundreds<br>hundred less/more | increase<br>interval(s)<br>lower<br>multiples of (ten)<br>ones column<br>partition<br>pattern | placeholder<br>place value<br>position<br>recombine<br>tens column<br>twenty-first<br>twenty-second |
| Year 3 | arrange<br>arrangement | ascending<br>descending<br>midpoint | one hundred less/more<br>pattern<br>thousand(s) |
| Year 4 | 4-digit number<br>classify<br>consecutive<br>decimal<br>decimal number<br>decimal place | decimal point<br>horizontal<br>hundredths<br>increasing/decreasing<br>integer<br>magnitude | minus<br>negative numbers<br>number range<br>positive numbers<br>ten thousand<br>tenths<br>whole number |
| Year 5 | hundred thousand<br>part-whole relationship | power(s) of 10<br>ten times | thousandths column<br>thousand times |
| Year 6 | hundred thousand<br>millions column | one million<br>scale interval | ten million<br>ten thousand column |

Addition and Subtraction

| | | | |
|---|---|---|---|
| Reception | add<br>adding<br>adding more<br>addition<br>altogether<br>and<br>double<br>how many fewer is... than...? | how many left/left over?<br>how many more is... than...?<br>how many more to make... ?<br>make<br>minus<br>more | one/two/ten less<br>one/two/ten more<br>plus<br>subtract<br>subtraction<br>subtracting<br>sum<br>take (away)<br>taking away<br>total |
| Year 1 | add(ed)<br>addition<br>altogether<br>calculation<br>combine/combination<br>difference (between)<br>equals | fact family<br>half/halve<br>how many...?<br>minus<br>missing number<br>near doubles | number bonds/pairs<br>number sentence<br>plus<br>subtract/subtracting<br>subtraction<br>take away<br>total |
| Year 2 | balances/balancing<br>column(s)<br>count back<br>in total | inverse<br>larger<br>multiple<br>number facts | numeral<br>part-whole model<br>row<br>smaller<br>sum |
| Year 3 | balances/balancing<br>bar model<br>column addition/subtraction | complete<br>error<br>function machine<br>number trio | part-whole model<br>partition/partitioning<br>rearrange<br>regroup<br>related facts |
| Year 4 | column method/calculation | complements<br>not equal to<br>regrouping | rounding<br>zero as a place holder |
| Year 5 | bridging<br>decimals<br>efficient writing | method<br>integers<br>inverse relationship | quantity value<br>tenths boundary<br>units boundary |
| Year 6 | above/below zero<br>brackets | negative | order of operations<br>positive |

Multiplication and Division

| | | | |
|---|---|---|---|
| Reception | double<br>each<br>equal | fair share<br>group<br>half | left over<br>share (out)<br>sharing |
| Year 1 | array<br>balances<br>columns/rows<br>count in tens<br>division/divided by<br>double/doubling/doubled | equal groups<br>group/groups of<br>halving<br>left/left over<br>lots of | multiple<br>multiplication<br>multiplied by<br>once, twice, three/five times<br>repeated addition<br>sharing |
| Year 2 | altogether<br>balances<br>combinations<br>divide<br>each<br>equal/unequal<br>equation<br>equivalent | group<br>(equally/between)<br>groups of<br>inverse<br>left over<br>lots of…<br>multiplication table<br>part<br>product | scale up<br>set<br>share (equally/between)<br>signs/symbols<br>split (equally/between)<br>times<br>times table<br>total<br>twice as big/small as |
| Year 3 | bar model<br>compact method<br>divided equally<br>divisor<br>equal/unequal parts<br>fact family | grouped equally<br>half/double the size<br>how many times<br>bigger/smaller?<br>part-whole model | partition<br>quarter/quartering<br>regroup/regrouping<br>remain/remains/remaining<br>remainder<br>scaling up/down |
| Year 4 | … times bigger/smaller<br>common multiples<br>derive<br>divisible by…<br>factor pair | fraction<br>hundred square<br>lowest common<br>multiple<br>multiples | ratio<br>related facts<br>square/squared<br>times table square<br>triple |
| Year 5 | area model<br>common factors<br>common multiple<br>composite number<br>cube number<br>decimal | dividend<br>divisibility<br>formal written<br>method<br>highest common<br>factor<br>long multiplication | one thousandth<br>prime factors<br>prime number<br>quotient<br>short division<br>square number |
| Year 6 | brackets<br>decimal point<br>factor tree | long division<br>operations<br>order of operations | power of 10<br>powers<br>prime factorisation<br>repeated subtraction |

Estimating

| | | | |
|---|---|---|---|
| Reception | close to<br>enough/not enough<br>estimate | guess<br>how many…?<br>just under/over | many<br>nearly<br>too many/few |
| Year 1 | close to<br>estimate<br>further away | guess how many<br>just over | just under<br>too few<br>too many |
| Year 2 | about<br>almost<br>greater than | halfway between<br>less than<br>nearer to | round to the nearest ten<br>round up/down |
| Year 3 | approximate(ly)<br>order | | |
| Year 4 | accurately<br>approximation<br>estimation | multiple (of)<br>place value column<br>round amounts | round numbers<br>round to the nearest…<br>significant digit |
| Year 5 | decimal (place)<br>round to one decimal | place<br>round to the nearest<br>whole number | |
| Year 6 | | | |

Probability

| | | | |
|---|---|---|---|
| Year 5 | certain<br>chance<br>doubt<br>fair<br>good chance<br>impossible | likelihood<br>likely<br>no chance<br>poor chance<br>possible | probable<br>risk<br>uncertain<br>unfair<br>unlikely |
| Year 6 | biased<br>equal chance | equally likely<br>even chance | fifty-fifty chance<br>random |

Reason

| | | | |
|---|---|---|---|
| Reception | | | |
| Year 1 | agree<br>disagree<br>every other<br>growing pattern<br>incorrect | mental/mentally<br>number sentence<br>odd one out<br>predict<br>put in order | recognise<br>repeating<br>pattern<br>sign<br>strategy<br>unequal |
| Year 2 | calculate/calculation<br>complete/completing<br>cycle<br>describe the pattern<br>describe the rule<br>first I need to…<br>I know this, so I know<br>predict/think that… | it could (not) be…<br>because…<br>link/linked<br>mental calculation<br>missing | order<br>prove<br>repeat/repeating<br>rule(s)<br>symbol<br>then I need to…<br>written calculation |
| Year 3 | category<br>collection<br>consecutive terms<br>eliminate<br>equation | greatest value<br>if… then…<br>in that case…<br>it will/won't work<br>because… | least value<br>reasoning<br>related (facts)<br>statement<br>system<br>unknown number |
| Year 4 | commutative<br>convince | general rule/statement<br>justify | prove<br>solve<br>true/false |
| Year 5 | cancels out<br>conclusion | logic<br>proof | sequence<br>summarise<br>trial and improvement |
| Year 6 | algebra<br>algebraic<br>expression<br>finite | formula/formulae<br>global rule<br>infinite | notation<br>nth term<br>simplify<br>substitute<br>variable |

Money

| | | | |
|---|---|---|---|
| Reception | | | |
| Year 1 | agree<br>disagree<br>every other<br>growing pattern<br>incorrect | mental/mentally<br>number sentence<br>odd one out<br>predict<br>put in order | recognise<br>repeating<br>pattern<br>sign<br>strategy<br>unequal |
| Year 2 | calculate/calculation<br>complete/completing<br>cycle<br>describe the pattern<br>describe the rule<br>first I need to…<br>I know this, so I know<br>predict/think that… | it could (not) be…<br>because…<br>link/linked<br>mental calculation<br>missing | order<br>prove<br>repeat/repeating<br>rule(s)<br>symbol<br>then I need to…<br>written calculation |
| Year 3 | category<br>collection<br>consecutive terms<br>eliminate<br>equation | greatest value<br>if… then…<br>in that case…<br>it will/won't work because… | least value<br>reasoning<br>related (facts)<br>statement<br>system<br>unknown number |
| Year 4 | commutative<br>convince | general rule/statement<br>justify | prove<br>solve<br>true/false |
| Year 5 | cancels out<br>conclusion | logic<br>proof | sequence<br>summarise<br>trial and improvement |
| Year 6 | algebra<br>algebraic<br>expression<br>finite | formula/formulae<br>global rule<br>infinite | notation<br>nth term<br>simplify<br>substitute<br>variable |

Geometry

| | | | |
|---|---|---|---|
| Reception | 2D<br>3D<br>circle(s)<br>cone<br>corner(s)<br>cube<br>cuboid<br>curved<br>cylinder<br>direction<br>edge<br>face(s) | flat<br>length<br>lines<br>middle<br>properties of shapes<br>pyramid<br>rectangle(s)<br>round<br>shape(s)<br>side<br>solid | sphere<br>square(s)<br>star<br>straight<br>surface<br>symmetrical<br>symmetry<br>triangle<br>wide |
| Year 1 | 2D shape(s)<br>3D shape(s)<br>anticlockwise<br>centre<br>clockwise<br>cone<br>corner(s)<br>cube<br>cuboid<br>cylinder<br>direction<br>edge | face<br>flat<br>hollow<br>identical<br>left<br>longer<br>oblong<br>point/pointed<br>position<br>quarter/half/<br>three-quarter/full turn<br>rectangle | right<br>shorter<br>side<br>size<br>solid<br>sphere<br>square<br>square corners<br>star<br>straight (line)<br>surface<br>symmetry/symmetrical<br>tube |
| Year 2 | angle<br>anticlockwise<br>arrow<br>circular<br>clockwise<br>curved surface<br>diagonal<br>half<br>hexagon | horizontal<br>line of symmetry<br>matching/identical/same<br>mirror image<br>mirror line<br>ninety degree turn<br>octagon<br>pentagon<br>prism<br>rectangular | reflect/reflection<br>right angle<br>rotate/rotating/rotation<br>semicircle<br>square prism<br>straight line<br>triangular<br>vertex/vertices<br>vertical |
| Year 3 | acute<br>attribute<br>centimetre<br>compass point<br>east<br>grid reference<br>hemi-sphere<br>heptagon<br>hexagon<br>hexagonal<br>intersect/intersection<br>irregular | kite<br>layer<br>millimetre<br>nets<br>north<br>obtuse<br>octagon<br>octagonal<br>orientation<br>parallel<br>parallel lines<br>parallelogram | perpendicular<br>quadrilateral<br>regular<br>rhombus<br>right-angled<br>row<br>set<br>south<br>square-based pyramid<br>trapezium<br>tree diagram<br>triangular prism |

| | | | |
|---|---|---|---|
| | | pentagon<br>pentagonal<br>perimeter | venn diagram<br>west |
| Year 4 | area<br>asymmetry<br>axis/axes<br>base<br>boundary<br>compasses<br>concave<br>concave kite<br>convex<br>coordinate grid<br>coordinates<br>cylindrical | decagon<br>degree(s)<br>diameter<br>dodecagon<br>equilateral triangle<br>gridline<br>irregular quadrilateral<br>isosceles triangle<br>line symmetry<br>midpoint<br>north-east<br>north-west<br>pair of coordinates<br>radius | right-angled triangle<br>rim<br>scalene triangle<br>set square<br>south-east<br>south-west<br>spherical<br>square-based<br>tessellate/tessellation<br>tetrahedron<br>three-dimensional<br>translate/translation<br>x/y axis<br>x/y direction<br>x/y value/coordinate |
| Year 5 | 1D<br>angles around a point<br>angles on a straight line<br>asymmetric<br>axis of symmetry<br>composite<br>compound shape<br>dimensions | enlarge<br>equidistant<br>exterior<br>interior<br>magnitude<br>octahedron<br>proportion<br>protractor<br>quadrant | ratio<br>reflective symmetry<br>reflex angle<br>regular/irregular polygon<br>scale drawing<br>scale factor<br>scale of 1 to...<br>transform/ transformation<br>triangular-based pyramid |
| Year 6 | altitude<br>arc<br>bisect<br>breadth<br>circumference<br>concentric<br>conservation of area<br>constant<br>diameter | dissect<br>dissection<br>formula<br>height<br>icosahedron<br>intersecting<br>pi<br>plane<br>platonic solid<br>point of intersection | radius<br>reflex<br>regular polyhedron<br>sector<br>square inch/mile/millimetre<br>surface area<br>units of area<br>vertically opposite angles<br>volume |

Data

| | | | |
|---|---|---|---|
| Reception | sort<br>sorting | | |
| Year 1 | list<br>set | sort | table<br>vote |
| Year 2 | bar chart<br>block graph/diagram<br>category | graph<br>interpret<br>key | label<br>pictogram<br>tally chart<br>title |
| Year 3 | axis/axes<br>Carroll diagram<br>columns | diagram<br>frequency<br>frequency table | representation<br>rows<br>Venn diagram |
| Year 4 | continuous data<br>grouped data | interval<br>line graph<br>plot | point<br>range<br>spread |
| Year 5 | average<br>bar line chart<br>classify<br>continuous<br>cumulative<br>database | discrete<br>maximum/minimum<br>value<br>mode<br>percentage<br>pie chart<br>population | proportion<br>running total<br>sample<br>score<br>summarise<br>two-way table<br>vertical/horizontal axis |
| Year 6 | central<br>data set<br>distribution<br>dual bar chart<br>error | mean<br>median<br>mode<br>outlier | sample size<br>skewing<br>statistician<br>statistics<br>variation |

Measurement

| | | | |
|---|---|---|---|
| Reception | balance(s)<br>capacity<br>close<br>compare<br>deep<br>empty<br>enough/not enough<br>estimate<br>far<br>fast<br>full/half full<br>heavy<br>high/highest | hollow<br>just over/under<br>light<br>long/longer/longest<br>low/lowest<br>mass<br>measure<br>narrow<br>near/nearly<br>quick(ly) | scales<br>shallow<br>short/shorter/shortest<br>size<br>slow<br>small<br>tall<br>thick/thicker/thickest<br>thin/thinner/thinest<br>too many/too few<br>too much/too little<br>weigh(s)<br>weight<br>wide |
| Year 1 | accurate<br>balance(s)<br>capacity<br>contain(s)<br>container<br>depth<br>distance<br>half/quarter full<br>heavier/heaviest<br>height | higher/highest<br>length<br>lesser/least<br>lighter/lightest<br>low<br>mass<br>measurement<br>narrow | ruler<br>scale<br>shorter/shortest<br>taller/tallest<br>unit (of measure)<br>volume<br>weigh(s)/weighing<br>wide/wider<br>width |
| Year 2 | approximate<br>capacity<br>centimetre<br>cold/colder/coldest<br>degrees (celsius)<br>distance<br>exact | further/furthest<br>gram<br>graph<br>half kilogram<br>half litre<br>kilogram<br>litre<br>mass | measuring (jug/scale)<br>metre<br>millilitre<br>standard unit of measure<br>tape measure<br>temperature<br>thermometer<br>warm/warmer/warmest<br>weight(s) |
| Year 3 | approximately<br>centigrade<br>conversion/convert<br>distance from/to | equivalent<br>interval(s)<br>kilometre<br>mile | millimetre<br>partition<br>perimeter<br>quantity |
| Year 4 | array<br>breadth<br>convert<br>edge<br>equivalence<br>lap<br>measuring cylinder | metric unit<br>per<br>pint<br>rate<br>side length<br>speed<br>square centimetre | square kilometre<br>square metre<br>square millimetre<br>surface<br>underweight<br>vessel |
| Year 5 | constant rate<br>cubic centimetre<br>displace<br>foot | imperial gallon<br>imperial units<br>inch<br>metric | pound (lb)<br>stone<br>ton/tonne<br>volume |

| | | | |
|---|---|---|---|
| | gallon | ounce | yard |
| Year 6 | approximately equal<br>base<br>centilitre<br>circumference<br>compasses<br>cubic metres<br>diameter | equation<br>formula<br>layer<br>one dimensional<br>part square<br>perpendicular height<br>pi | precision<br>radius<br>ratio<br>three dimensional<br>two dimensional<br>variation |

Fractions and Ratio

| | | | |
|---|---|---|---|
| Reception | fair share<br>group<br>half | halve/halving<br>parts/parts of a whole | share (out)<br>sharing<br>whole |
| Year 1 | double<br>equal parts<br>fraction | grouping<br>half/halves | quarter(s)<br>sharing<br>three quarters |
| Year 2 | denominator<br>divide<br>equivalent/equivalence<br>factor | one third<br>mixed number<br>non-unit<br>numerator | third<br>two quarters<br>two thirds<br>unit |
| Year 3 | complements<br>decimals<br>eighths<br>fifths | integer<br>ninths<br>non-unit fraction<br>remainder | sevenths<br>sixths<br>tenths<br>unit fraction |
| Year 4 | cancel<br>common fraction<br>decimal place | decimal point<br>equate<br>hundredths | proportion<br>set<br>thousandths<br>twentieth |
| Year 5 | equivalence<br>improper<br>mixed numbers | percentage/percent/%<br>proper<br>proportion | ratio<br>reduced to<br>twelfth |
| Year 6 | integer multiplication<br>missing value | relative size | scale factor<br>simplify |

Time

| | | | |
|---|---|---|---|
| Reception | afternoon<br>afterwards<br>before<br>clock<br>day<br>during<br>early<br>evening<br>Friday<br>hands<br>hour<br>last<br>late/later | Monday<br>morning<br>next<br>night<br>now<br>o'clock<br>Saturday<br>soon<br>Sunday | takes less time<br>takes longer<br>then<br>Thursday<br>time<br>today<br>tomorrow<br>Tuesday<br>watch<br>Wednesday<br>week<br>yesterday |
| Year 1 | always<br>April<br>August<br>Autumn<br>calendar<br>date<br>December<br>earlier<br>faster/fastest<br>February<br>finally<br>Friday<br>half past<br>hour(s)<br>hour/minute/second hand(s)<br>January<br>July | June<br>later<br>September<br>slow/slower/slowest<br>sometimes<br>Spring<br>March<br>May<br>midnight<br>minute(s)<br>Monday<br>month(s)<br>never<br>new/newer/newest<br>o'clock<br>quarter past/to<br>quick/quicker/quickest<br>Saturday | seasons<br>second(s)<br>November<br>now<br>October<br>often<br>old/older/oldest<br>once<br>stopwatch<br>Summer<br>Sunday<br>Thursday<br>Tuesday<br>twice<br>Wednesday<br>week<br>weekend<br>Winter<br>year |
| Year 2 | analogue<br>digital<br>earliest<br>fortnight<br>half past | latest<br>midday<br>midnight<br>minutes past/to | noon<br>o'clock<br>quarter past<br>quarter to<br>time difference |
| Year 3 | 12 hours<br>24 hours<br>a.m/p.m | anticlockwise<br>arabic numerals<br>century | leap year<br>roman numerals<br>timetable |
| Year 4 | centuries<br>decades | millenium<br>period | previous<br>subsequent<br>timeline |
| Year 5 | | | |
| Year 6 | annual<br>British Summer Time | | Greenwich Mean Time<br>International Date Line |

General

| | | | |
|---|---|---|---|
| Reception | above<br>across<br>around<br>behind<br>below<br>beside<br>between<br>bottom<br>compare<br>down | every<br>first, second, third…<br>twentieth<br>front<br>in front of<br>inside<br>near<br>next to<br>on/on top of | opposite<br>outside<br>over<br>set<br>sideways<br>sort<br>through<br>top<br>towards<br>under/underneath<br>up<br>upside down |
| Year 1 | arrange<br>digit cards | hundred square<br>left | number square<br>right<br>ten frame |
| Year 2 | investigate<br>method<br>number grid | number pairs<br>operation(s)<br>predict | represent<br>sign<br>tally |
| Year 3 | diagram<br>input<br>output | | |
| Year 4 | convention<br>general rule | number range<br>properties | |
| Year 5 | area model<br>general | matching<br>specific | |
| Year 6 | algebra<br>formula<br>function<br>identical | jotting<br>known values<br>linear sequence<br>substitute | symbol<br>typical<br>vary<br>variables |