Diocese of Norwich
St Benet's
Multi Academy Trust

St Benet's Maths Vocabulary Policy

Reception to Year 6

Maths Vocabulary for the New National Curriculum

This booklet sets out EYFS, Key Stage 1 and Key Stage 2 maths vocabulary under the new National Curriculum.

The lists are intended as a guide as to what pupils should know and are not exhaustive.

It is expected that the key vocabulary and stem sentences are displayed on the 'Maths Working Walls' at appropriate times during the academic year. This vocabulary **must** be promoted through mathematical talk in lessons. Key vocabulary will be practised daily.

Each year group will build on the previous year's vocabulary.

Please refer to the glossary for definitions.

Maths Vocabulary for Reception

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurements	Time	Money	Shape	Position and Direction	Statistics
Zero – twenty and beyond. Count, count on, count back (in ones) Odd and even. One/two digit number More/less Greater/fewer Smaller/bigger Smallest/biggest Greatest. Estimate -	Add, more, sum, total, altogether. Double, one more, two more, ten more etc. Add, addition, minus Subtract, minus, takeaway. Calculation, equals Bar model Part – whole model, subitise	Sharing, share Doubling Groups of Patterns	Parts of a whole Half Quarter Part whole model Bar Model	Measure, size, compare, guess, estimate, enough, not enough, too much, too little, too few. Close to, about the same, just under, nearly there. Length, metre, height, width, depth, long, short, tall, high, low, wide, narrow, thick, thin, longer, shorter, tallest, highest. Weigh, balances, heavy, light, heavier than, lighter than, scales, full, half full empty.	Time Day of the week. Week, month, year. Birthday, holiday. Morning, afternoon, evening, bedtime time, dinner time, playtime, lunchtime. Before, after, next, last. Quick, quickest,	Money, coin, penny, pence, price, cost, buy, sell, spend, spent, pay	Shape, pattern, flat, curved, straight, round, hollow, solid, size, bigger, larger, smaller. Symmetrical, pattern, repeating pattern. 2D Shapes – vertices, sides, square, circle, rectangle, triangle,	Position, over, under, above, below, top, bottom, inside out, in front, behind, next to, opposite, apart, between, middle. Direction – Left, right, up, down, forwards, backwards, sideways, across, next to, close, near, far, along, through, to,	Count, sort, group, set, list, colour

					quicker, quickly. Slow, slowly, slower. Old, older, oldest, new, newer, newest. O'clock, clock, watch, hands			from, towards, away.	
Stem Sentences									
How many…? One more than… One less than…is… One more than….is…. ….is bigger than… ….is smaller than…. I estimate there are…..	How many more do you need to make…? How many altogether? How many are left?	Double….is…..	Half of … is …	….is heavier / lighter than… This container is….and this one is…. This….. is the longest This….. is the shortest.	In the morning I …. We have our dinner after our lunch. …..was the fastest / slowest. Today is…..	I have ….p I need….coi ns	This shape is a …because it has….sides and …vertices	I am standing…. To The teddy is …the ….	I sorted the objects by…..

Maths vocabulary for Year 1

Number and Place Value	Addition and Subtraction	Multiplication and Division	Measure	Geometry (position and direction)	Geometry (properties of shapes)	Fractions	General Problem Solving and Reasoning
Numbers – Zero to twenty and beyond. Ones and tens Count – ten more, ten less (on,up,to,from) Before, after More, less, many, few, fewer, least, fewest, smallest, greatest, less than, greater than.	Number bonds Number line Calculation, equation Equals = Operation + and - **Addition** - more, plus, addition, equals, total, altogether **Subtraction** – minus, subtract, total, equals Difference between	Odd, even Count in twos and fives and tens, (forward, backwards and from a different number) **Multiplication** – multiply, multiple, groups of, repeated addition, product, array, row, column, unitise **Division –** Divide, divided by, left over, share equally	Scales – g, kg Seasons Day, week, month, year, weekend Today, tomorrow, yesterday. Hour, half past, o'clock, clock, watch, hands. How long ago? How long will it be until…?	Opposite, apart, between, middle, edge, centre. **Direction –** Left, right, up, down, forwards, backwards**,** sideways	Group, sort, make, build, draw	Whole, equal, parts, four equal parts. One half, two halves, a quarter, two, quarters.	Say, think, imagine, and remember. Start from, start with, start at. Look at, point to. Put, place, fit. Arrange, rearrange. Change, change over. Split, separate. Carry on, continue, and repeat, what comes next? Find, choose, collect, use, make, build. Tell me, describe, pick, talk about, explain, show me.

Equal to – same as Odd/Even Digit numeral One digit, two digit Compare – size, value	Part whole model Bar model		How often..? Estimate – close to, about, same as, just under. Length – width, height, depth, narrow, deep, shallow, thick, thin. Metre – ruler, metre stick, money, pound, pence, buy, sell, cost, spend, cheaper, expensive, How much, how many?				Read, write, record, trace, copy, complete, finish, end.
Stem Sentences							
….has …tens and …ones …is greater than….	4 add 3 equals 7 7 subtract 3 equals 4 The total of …+… is….	The product of … multiply… is….	There are four seasons these are…..	To get to the end you need to go……	This shape has ……vertices and ……sides. I have made a …..	This shape has….parts shaded in which is half/quarter.	My picture shows…and the calculation for this is…..

….is less than…..	I need….more to make….		Yesterday ….but tomorrow…. . There are ….hours until ….. The …costs ….£/p				

Maths vocabulary for Year 2

Number and Place Value	Addition and subtraction	Multiplication and Division	Measure	Geometry (position and direction)	Geometry (properties of shape)	Fractions	Data/ Statistics	General Problem solving
Numbers to hundred Hundreds, tens and ones Place value grid Hundred more / less	Column method, regroup (subtraction), exchange (addition), addend, minuend, sum. 10 ones = 1 ten 1 ten = 10 ones	Product, factor Multiplicand, multiple quotient, divisor, dividend	Quarter past/to m/km g/kg ml/l Temperature degrees	Rotation, clockwise, anticlockwise, ninety degree turn, right angle Straight line	Size, bigger, larger, smaller. Symmetrical, line of symmetry, fold, match, mirror line. Reflection, pattern, repeating pattern.	Three quarters, one third, a third Equivalence Equivalent Numerator, denominator	Count, tally, sort, vote Graph, block, graph, pictogram Represent, group, set, list, table Label, title, most popular, most common, least popular, least common	Predict Estimate Describe the pattern Describe the rule Find all the different possibilities Investigate
Stem sentences								
….has …hundreds…tens and …ones		The product of …multiply…is e.g 5 x 4 =20	Half an hour after …. Is ….	I turned the …anticlockwise/ Clockwise	The ….has…. lines of symmetry. I know this shape has been	This diagram shows the fraction….	This block/pictogram shows us…	Use the sentences above to support reasoning

The value of ..in ….is…. 10 more/less than…is		5 is the multiplicand and 4 is the multiplier. 20 is the product. 4 groups of 5. 20 divided by 4 the quotient is	Quarter past ….would be The thermometer shows a temperature of….degrees .	This shows parallel lines	reflected because…	In (2/4) the denominator is… and the numerator is….	The most popular is… The least popular is….	and problem solving questions.

Maths Vocabulary for Year 3

Place Value and Number	Addition and Subtraction	Multiplication and Division	Measure	Geometry (position and direction)	Geometry (properties of shape)	Fractions	Data / Statistics
Hundreds tens and ones Numbers zero to thousand	Column addition and subtraction Regroup – subtraction Exchange - addition	Product, multiples of three, four and eight. Commutative law. Multiplicand and multiplier. Scale.	Leap year Digital and analogue clock. Roman numerals I to XII	Greater/less than 90 degrees Orientation (same/different orientation)	Horizontal, vertical, perpendicular and parallel lines. Perimeter	Numerator, denominator. Unit fraction, non-unit fraction Compare and order tenths	Chart, bar chart, frequency table, carroll diagram, venn diagram, axis, axes, diagram
Stem sentences							
…..has…hundreds….tens And….ones I know …is greater / less	I have to regroup/exchange because….	Multiplication is commutative so…makes the same product as…..	….in an analogue / digital clock would be….	The position on this…is greater/less than 90 degrees.	In this shape there are….parallel lines.	I know …is bigger than….. I know… is bigger / smaller	This bar chart / frequency table/ carroll diagram shows…. This most/least popular is…..

than ….because The value of …in… Is,... The odd one out is ….because…						than a half, a quarter.	

Maths Vocabulary for Year 4							
Number and Place Value	Addition and Subtraction	Multiplication and Division	Measures	Geometry (position and direction)	Geometry (properties of shape)	Fractions and Decimals	Data / Statistic
Tenths, hundredths. Decimal (places) Round (to nearest thousand) Thousand more/les Negative integers	Continue to apply, reason and problem solve with formal column methods	Multiplication facts – 12 x 12 Division facts Inverse Derive	Convert Cm M Km Kg Ml	Coordinates Translation Quadrant x-axis y-axis Perimeter and area	Quadrilaterals Triangles – right angle, acute and obtuse angles	Equivalent decimals and fractions	Continuous data Line graph

Count through zero Roman numerals (I to C)							
Stem sentences							
In (4 digit number) there are …thousands, hundreds, tens and ones. A thousand more/less than ….is	The odd one out is….because This statement is true/false because…… The error in this calculation is….	Multiplication is commutative so…makes the same product as…. . The quotient of …divided by….is ….	I know …m converted into cm is….	The perimeter of the …is…	I know this triangle has….angles because….	The equivalent decimal / fraction is ….	This line graph shows….

Maths Vocabulary for Year 5

Number and Place Value	Addition and Subtraction	Multiplication and Division	Geometry (position and direction)	Geometry (properties of shape) & Measurement	Fractions and Decimals	Algebra	Data / Statistic
Numbers to ten million Linear number sequence Powers of 10	Order of operations Decimal Place Columnar Significant digit	Order of operations Common factors, multiples Composite number Distributivity Prime number Cube number Square number	Four quadrants (for coordinates) Motion Translation	Vertically opposite angles Circumference Radius Diameter Bisect Scalene triangle Imperial Scale factor	Degree of accuracy Simplify Proportionate Decimal equivalents Proper and improper fractions	Linear number sequence Substitute Variables Symbols Known values	Mean, mode, medium Pie Chart, Construct Analyse Comparative data Maximum and minimum value

Stem Sentences							
The place value of …in….is Reading numbers accurately and correctly.	I know I need to …before…. because….	…has these common factors / multiples I know I need to …. Before….	The missing coordinate is…. This ..is plotted at the coordinates …..	The circumference/ Diameter/radius of a … is	The fraction…in its simplest form is….	The value of ….is… I know this because …..	The mode / median / mean is….

Maths Vocabulary for Year 6							
Number and Place Value	Addition and Subtraction	Multiplication and Division	Geometry (position and direction)	Geometry (properties of shape)	Fractions and Decimals	Algebra	Data / Statistic
Numbers to ten million	Order of operations	Order of operations Common factors, multiples	Four quadrants (for coordinates)	Vertically opposite angles Circumference Radius Diameter	Degree of accuracy Simplify	Linear number sequence Substitute Variables Symbols Known values	Mean, mode, medium Pie Chart, Construct
Stem Sentences							

The place value of …in….is Reading numbers accurately and correctly.	I know I need to …before…. because….	…has these common factors / multiples I know I need to …. Before….	The missing coordinate is…. This ..is plotted at the coordinates …..	The circumference/ Diameter/radius of a … is	The fraction…in its simplest form is….	The value of ….is… I know this because… ..	The mode / median / mean is….

Examples of problem solving and reasoning stem sentences.

These should be used when problem solving and reasoning, to help develop children's verbal and written explanations.

- I agree / disagree because…
- I think….because….
- I noticed that…. (the sequence increased therefore I knew the operation was going to be addition or multiplication)

- The odd one out is ….because
- I think this statement is true/false because….
- The best strategy would be….because….
- I got a different answer because…
- The error in this calculation was….
- I estimate the total/product/quotient will be……because….
- I know you can represent….like this….
- I know I need to do….first before…because….
- I know the missing number is…..because….
- I know this is a quadrilateral because…
- I noticed the pattern was…..
- I used the knowledge that I knew…..to help me solve the calculation.
- This is the same / different because…
- It cannot be…..because….
- This is always true because…..
- When the addend……..by…….. the sum……..by…...