<u>Appendix 2</u>

<u>Maths Vocabulary</u>

This document sets out maths vocabulary for EYFS, Key Stage 1 and Key Stage 2 under the new National Curriculum. The tables can be used to check pupil's understanding of new vocabulary that is introduced. The lists are intended to be a guide as to what pupils should know and are not exhaustive. Key vocabulary could be displayed on Maths Working Walls at appropriate times during the academic year and in line with the current maths topic being taught within the class and is promoted through mathematical talk in lessons. It is expected that pupils hear adults using the correct mathematical vocabulary during lessons as well as the children themselves using the maths vocabulary which is encouraged by speaking/answering in full sentences.

| New vocabulary for EYFS | | | | | | | |
|---|---|---|---|---|---|---|---|
| Number and Place Value | Addition and subtraction | Multiplication and Division | Measure | Geometry (position and direction) | Geometry (property of shape) | Fractions | General/Problem Solving |
| Number<br><br>zero,<br>one, two, three to twenty and beyond<br>teen numbers<br>none<br><br>count on/up/to from/down<br>count on in ones, twos, fives, tens<br><br>before/after<br><br>more, less, many, few, fewer, fewest, smaller, smallest<br><br>equal to, same as<br><br>odd, even<br><br>digit, numeral<br><br>compare<br><br>order<br><br>size | add, more, plus, make, sum, altogether, total<br><br>double<br><br>half, halve<br><br>equals, is the same as<br><br>one more, two more..<br><br>how many more to make? how many more is... than...? how much more is ..?<br><br>subtract, minus, take away<br>how many are left / left over?<br>how many are gone?<br><br>one less, two less...<br><br>how much less is..?<br><br>difference between | odd even<br><br>double, halve<br><br>share, share equally<br><br>groups of<br><br>equal groups of<br><br>divide<br><br>lots of<br><br>number patterns | measure<br>size<br>compare<br>guess/estimate<br>enough/not enough<br>too much/too little<br>too many/too few<br>nearly, close to,<br>about the same as,<br>just over, just under<br>full, half, empty<br><br>**Length**<br>long, short, tall<br>thick, thin<br>wide, narrow<br>long, longer, longest<br>short, shorter, shortest<br>high low<br>metre<br><br>**Weight**<br>weigh, weight, balance<br>heavy, heavier, heaviest, light, lighter, lightest<br>scales<br><br>**Capacity**<br>full / empty | over, under, underneath, above, below, top, bottom side, around,<br><br>on, in, outside, inside<br>in front / behind front, back<br>before, after<br>beside, next to<br>middle, edge<br><br>up, down, backwards, forwards, sideways left/right<br><br>close, far<br><br>through<br><br>towards, away from<br><br>side, roll, turn | sort<br>shape<br>pattern<br>repeating pattern<br>symmetrical<br>match<br>size<br>face / side<br>flat<br>curved<br>round<br>straight<br>hollow<br>solid<br>make, build, draw<br><br>2D shape<br>corner<br>side<br>rectangle (including square)<br>circle<br>triangle<br><br>3D shape<br>cue<br>cuboid<br>sphere<br>cone<br>pyramid<br>cylinder | parts of a whole<br><br>half<br><br>quarter | listen to / join in<br><br>say, think, remember<br><br>start from<br><br>look at, point to<br><br>put<br><br>what comes next?<br><br>Find, use, make, build<br><br>tell me, describe, pick out, talk about, point to, show me, explain<br><br>read, write<br><br>tick, draw a line, ring around<br><br>number line<br>number square<br>number cards<br>number track<br><br>counters, cubes, blocks, dice, |

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|---|---|---|---|---|---|---|---|
| value<br><br>between, halfway between<br><br>first, second, third<br><br>estimating<br>guess<br><br>how many?<br>estimate<br>nearly<br>close to<br>about the same as<br>just over / under<br>too many / few<br>enough / not enough | | | half full<br>container<br>holds<br><br>**Time**<br>time<br>days of the week<br>seasons<br>birthday, holiday<br>morning, afternoon, evening, night<br>bedtime, dinnertime, playtime<br>today, yesterday, tomorrow<br>before, after, next, last<br>quickest, slowest, fastest<br>clock<br>once<br><br>first, second, third<br><br><br>length, height<br><br>long, longest, short, shorter, shortest, tall, taller, tallest, high, higher, highest<br><br>**Money**<br>money, coin, penny, piece, pound, price, | | face. edge, vertex, vertices | | numicon, pegs, dominoes, peg boards<br><br>same/different<br><br>in order / no in order |

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| | | | cost, buy, sell, spend, spent, pay, change<br>how much? how many?<br>total | | | | |

| New vocabulary for Year 1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Number and Place Value | Addition and subtraction | Multiplication and Division | Measure | Geometry (position and direction) | Geometry (property of shape) | Fractions | General/Problem Solving |
| **Number**<br>numbers to 100 from 21 onwards<br><br>numeral/figure<br><br>ones / tens<br><br>forwards/backwards<br>equal to<br>equivalent to<br>most/least<br>more/less than<br>many<br>multiple of<br><br>in order/ different order<br><br>**Place Value**<br>equal to<br>half way between<br>above / below<br>most/least<br>greater/lesser/fewer<br><br>pair | number bonds/ facts/ pairs<br><br>inverse<br><br>double<br>near double<br><br>half/halves<br><br>difference<br>equals<br>is the same as<br>between<br>missing number<br><br>how many fewer is... than ..?<br>How much less is..?<br><br>addition<br>subtraction<br>subtract | multiplication<br>multiply<br>multiplied by<br>multiple<br>times<br>groups of/lots of<br>array<br>row / column<br>repeated addition<br>division<br>dividing<br>divided by<br>left over<br>grouping<br><br>count in tens<br>(forwards from.. backwards from..) | measurement<br>roughly<br><br>**Length/height**<br>centimetre<br>metre<br>metre stick<br>ruler<br>long, short, tall, high<br>longer/shorter<br>low, wide, narrow, deep, shallow, thick, thin<br>far, near, close<br>width, depth<br>double/half<br><br>**Weight**<br>kilogram<br>half kilogram<br>heavy/light<br>heavier/lighter than<br><br>**Capacity**<br>full/empty<br>half full<br>quarter full<br>litre/ half litre<br>capacity<br>volume<br>more/less than<br>quarter full | position<br>around<br>opposite<br>near<br>far<br>movement<br>underneath<br>centre<br>journey<br>direction<br><br>whole turn<br>quarter turn<br>three-quarter turn<br>left/right | symmetry<br>symmetrical pattern<br><br>**2D shape**<br>point<br>pointed<br>edge<br><br>**3D shape**<br>cuboid<br>cylinder<br><br>hollow | fraction<br>equal parts<br>equal grouping<br>equal sharing<br><br>one of two equal parts<br>one of four equal parts<br>two halves<br>quarter | quantity<br>mental<br>mentally<br>explain<br>problem solving<br>pictorial<br>representation<br><br>arrange/re-arrange<br><br>place, put, fit<br><br>split, separate<br><br>continue, repeat<br><br>fill in, shade, colour, cross, draw, join up, arrow<br><br>answer, check, same number, different number, missing number<br><br>abacus<br>best way, another way<br>not all<br>every<br>each |

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|---|---|---|---|---|---|---|---|
| | | | enough/not enough close to, about the same as, just over/ under | | | | |
| | | | **Time** months of the year seasons weekend, month, year earlier/later before/after first, today, yesterday, tomorrow, morning, afternoon, evening midnight, date now, soon, early, late quick, quickest, quicker, quickly, slow, slower old, older, oldest, new, newer, newest How long ago? how long will it be to...? how long will it take to...? how often? takes longer, takes less time always, never, sometimes, often, usually once, twice | | | | |

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|---|---|---|---|---|---|---|---|
| | | | first, second, third<br>hour, o'clock<br>half past<br>hour hand<br>minute hand<br>hours<br>minutes<br>seconds<br>clock, watch<br>first,<br><br>**Money**<br>change<br>costs more/less<br>dear(er)/cheap(er)<br>costs the same as...<br>how much?<br>how many?<br>total | | | | |

| New Vocabulary for Year 2 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Number and Place Value | Addition, subtraction, multiplication and Division | Measure | Geometry (position and direction) | Geometry (property of shape) | Fractions | Statistics | General/Problem Solving |
| two-digit number<br><br>count on in twos, threes, fives, and so on from 0<br>tally<br>sequence<br>continue<br>predict<br>rule<br>compare /order<br>> greater than<br>< less than<br>= same as (equals)<br>Place Value<br>hundreds<br>one/two/three-digit number<br>place<br>place value<br>represents<br>exchange/re-group<br>twenty-first... | **Addition/subtraction**<br>addition and subtraction facts<br><br>one hundred more/less<br><br>commutative (+)<br>(can be done in any order)<br><br>inverse relationship<br><br>**Multiplication / Division**<br>commutative (X)<br>(can be done in any order) | tape measure<br>unit of measure<br><br>**Length/height**<br>metre/centimetre<br>m/cm<br><br>**Weight**<br>kilogram/gram<br>kg/g<br><br>**Capacity**<br>litre/ millilitre (ml)<br>contains<br><br>**Temperature**<br>temperature<br>degrees<br>time in five minutes<br>5, 10, 20 minutes<br>past<br><br>**Time**<br>quarter past/to<br>fortnight<br>digital/analogue | clockwise, anti-clockwise<br><br>straight line<br><br>ninety-degree turn<br>right angle<br><br>rotation<br><br>route | surface<br>line symmetry<br>symmetrical<br>mirror-line<br>reflection<br>fold<br>match<br><br>vertices | equivalence<br>equivalent<br><br>third<br>quarter | count, tally, sort<br><br>pictogram, tally chart, block diagram, tables<br><br>represent<br><br>label, title<br>most/least popular<br>most/least common | predict<br><br>find<br><br>investigate<br><br>describe the pattern<br><br>describe the rule<br><br>explain your method<br><br>mental calculation<br><br>written calculation |

| New maths vocabulary for Year 3 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Number and Place Value | Addition, subtraction, multiplication and Division | Measure | Geometry (position and direction) | Geometry (property of shape) | Fractions | Statistics | General/Problem Solving |
| **Number**<br>three-digit number<br>Numbers to one thousand<br>order, compare<br><br>Place Value<br><br>count on in fours, eights, fifties and hundreds<br><br>find 10/100 more /less<br><br>relationship<br>Roman Numerals<br> I to XII<br><br>**Place Value**<br>one hundred more/less | column addition<br>column subtraction<br><br>product<br><br>multiples of 4, 8, 50 and 100<br><br>scale up | approximately<br><br>**length/height**<br>millimetre (mm)<br>perimeter<br><br>**Time**<br>12 hour / 24 hour clock<br>Roman Numerals<br> I to XII on clocks<br>nearest minute<br>a.m. / p.m.<br>century<br><br>**Temperature**<br>centigrade<br><br>**Money**<br>pounds £ / pence p | orientation<br>same orientation<br>different orientation<br><br>greater/less than a right angle<br><br>NSEW<br><br>horizontal<br>vertical<br>diagonal | horizontal lines<br>vertical lines<br>perpendicular lines<br>parallel lines<br><br>prism | numerator<br>denominator<br><br>unit fraction<br>non-unit fraction<br><br>compare/order<br><br>tenths<br><br>equivalent fractions<br><br>sixths, sevenths, eighths, tenths | bar chart<br>carroll diagram<br>venn diagram<br>frequency table | greatest value<br><br>least value |

| New Maths vocabulary for Year 4 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Number and Place Value | Addition, subtraction, multiplication and Division | Measure | Geometry (position and direction) | Geometry (property of shape) | Fractions | Statistics | General/Problem Solving |
| count in multiples of 6,7,9,25 and 1000<br><br>1000 more/less than a given number<br><br>negative numbers count through zero positive number negative number above/below zero<br><br>four-digit number<br><br>ten thousand<br><br>identify, represent and estimate numbers<br><br>round to the nearest<br><br>Roman Numerals to 100 I to C<br><br>next/consecutive number<br><br>integer | inverse<br><br>division facts<br><br>one-step / two-step problems | convert<br><br>Time leap year millennium date of birth | co-ordinates quadrant axis x-asix y-axis 2D grid<br><br>translation<br><br>area | quadrilaterals Triangles<br><br>acute/obtuse angles<br><br>polygon<br><br>rectilinear | hundredths<br><br>decimal<br><br>decimal equivalent<br><br>round decimals to the nearest whole number<br><br>value of decimal digits<br><br>equivalent fractions and decimals | discrete data<br><br>continuous data<br><br>line graphs time graphs | justify |

| New Maths vocabulary for Year 5 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Number and Place Value | Addition, subtraction, multiplication and Division | Measure | Geometry (position and direction) | Geometry (property of shape) | Fractions, Decimals and Percentages | Statistics | General/Problem Solving |
| million<br><br>powers of 10<br><br>Roman Numerals to 1000 (M)<br><br>multiples of 10/25<br><br>five/six-digit number<br><br>hundred thousand | factor pair<br>common factors<br><br>composite number<br>prime number<br>square number<br>cubed number<br><br>ascending order<br>descending order | volume<br><br>imperial units<br>metric units<br><br>pint<br>gallon<br>mile<br>pound/ounce<br>stones<br><br>square metre (m$^2$)<br>square centimetre (cm$^2$)<br><br>discount,<br>currency<br>decimal notation | reflex angle<br><br>dimension<br><br>mass | radius<br><br>diameter<br><br>irregular shapes | improper fractions<br>proper fractions<br>mixed numbers<br><br>percent (%)<br>percent – number of parts per hundred<br><br>three decimal places | timetables | justify |

| New Maths vocabulary for Year 6 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Number and Place Value | Addition, subtraction, multiplication and Division | Measure | Geometry (position and direction) | Geometry (property of shape) | Fractions, decimals and percentages | Statistics | Algebra |
| numbers to ten million | order or operations | decimal notation | full co-ordinate grid | nets | common multiples | pie charts | algebra |
| degree of accuracy | | profit, loss | four quadrants | circles-radius, diameter, circumference | simplest form | construct | equation |
| calculate intervals across zero | | | co-ordinate plane | diameter is twice the radius | simplify fractions | mean as an average | linear number sequence |
| factorise | | | | angles meeting at a point | decimal fraction equivalent | | simple formulae |
| | | | | angles on a straight line | | | algebraic expressions |
| | | | | vertically opposite angles | | | unknown variables |
| | | | | missing angles | | | substitute symbol |
| | | | | | | | enumerate possibilities |
| Ratio and Proportion | ratio         proportion<br>scale factor     two quantities<br>part/whole | | | | | | |