Maths B4 levels

NPV
I can explore what 1000 is through concrete and pictorial representations
I can recognise that 1000 is made up of ten hundreds
I can recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)
I can identify numbers using different representations
I can represent numbers to 9999 on a place value grid
I can represent numbers using different representations
I can break down 4 digit numbers in different ways
I can estimate, work out and draw numbers on a number line to 10000
I can estimate numbers using different representations
I can order a set of numbers in ascending order
I can order a set of numbers in descending order
I can order numbers beyond 1000
I can find the largest and smallest number from a set
I can compare numbers beyond 1000 using comparative language and symbols to determine which is greater and which is smaller
I can count backwards through zero to include negative numbers using number lines, number squares and other visual aids
I can solve problems that involve negative numbers linked to real life situations like temperature and water depth
I can find 1000 more than a given number
I can find 1000 less than a given number
I can solve number problems that involve all of the above and with increasingly large positive numbers
I can round 2 digit numbers to the nearest 10
I can round 3 digit numbers to the nearest 10
I can round any number to the nearest 10
I can round 3 digit numbers to the nearest 100
I can round any number to the nearest 1
I can round 4 digit numbers to the nearest 1000
I can round any number to the nearest 1000
I can count in multiples of 6
I can solve number problems that involve counting in multiples of 6

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I can count in multiples of 7
I can solve number problems that involve counting in multiples of 7
I can count in multiples of 9
I can solve number problems that involve counting in multiples of 9
I can count in multiples of 25
I can solve number problems that involve counting in multiples of 25
I can count in multiples of 1000
I can solve number problems that involve counting in multiples of 1000
WMD
I can multiply by 1
I can divide by 1
I can multiply by 0
I can divide by 0
I can use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1
I can multiply by 10
I can divide by 10
I can multiply by 100
I can divide by 100
I can multiply by 6
I can divide by 6
I can multiply by 9
I can divide by 9
I can multiply by 7
I can divide by 7
I can recall multiplication facts for multiplication tables up to 12 × 12
I can use place value, known and derived facts to multiply and divide mentally, including dividing by 1
I can use place value, known and derived facts to multiply and divide mentally, including multiplying together three numbers
I can recognise and use commutativity in mental calculations
I can explore the 11 and 12 times tables through partitioning

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I can use base 10 equipment to build representations of the times tables and explore the inverse of multiplication and division statements
I can use base 10 equipment to explore the inverse of multiplication and division statements
I can recognise and use factor pairs in mental calculations
I can recognise and use commutativity in mental calculate
I can partition 2 digit numbers into tens and ones or into factor pairs in order to multiply one and two digit numbers
I can multiply two-digit numbers by a one-digit number using formal written layout
I can solve problems involving multiplying including using the distributive law to multiply two digit numbers by one digit
I can solve problems involving adding including using the distributive law to multiply two digit numbers by one digit
I can represent multiplying a three digit number multiplied by a one digit number with concrete manipulatives
I can multiply three-digit numbers by a one-digit number using formal written layout
I can divide a 2 digit number by a one digit number using concrete manipulatives
I can explore dividing 2 digit numbers by 1 digit numbers involving remainders
I can divide 3 digit numbers by 1 digit numbers using place value counters and part whole models
I can recall division facts for multiplication tables up to 12 × 12
I can solve problems involving multiplying including harder correspondence problems such as n objects are connected to m objects.
I can solve problems involving multiplying including integer scaling problems
I can solve problems involving adding including harder correspondence problems such as n objects are connected to m objects.
I can solve problems involving adding including integer scaling problems
FRP
I can explore fractions in different representations (shapes, quantities, number lines)
I can explore the meaning of numerator and denominator, non-unit and unit fractions
I can use strip diagrams to investigate and record equivalent fractions
I can recognise families of common equivalent fractions
I can show, using diagrams, families of common equivalent fractions
I can use manipulatives and diagrams to show that a fraction can be split into wholes and parts
I can explore fractions greater than one on a number line and start to make connections between proper and improper mixed numbers
I can use cubes and bar models to represent fractions greater than a whole
I can use practical equipment and pictorial representations to add two or more fractions
I can add fractions with the same denominator

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I can use practical equipment and pictorial representations to subtract fractions with the same denominator
I can subtract fractions from whole numbers
I can find unit fractions of a quantity
I can solve more complex problems for fractions of a quantity
I can solve simple measure problems involving fractions
I can solve simple money problems involving fractions
I can add fractions with the same denominator
I can subtract fractions with the same denominator
I can solve problems involving increasingly harder fractions to calculate quantities
I can solve problems involving fractions to divide quantities, including non-unit fractions where the answer is a whole number
I can recognise tenths and hundredths using a hundred square
I can use base 10 and a hundred square to recognise the relationship between 1/10 and 0.1
I can write tenths as decimals and as fractions
I can read and represent tenths on a place value grid
I can read and represent tenths on a number line
I can find the effect of dividing a one- digit number by 10 identifying the value of the digits in the answer as ones, tenths and hundredths
I can find the effect of dividing a two - digit number by 10 identifying the value of the digits in the answer as ones, tenths and hundredths
I can recognise decimal equivalents of any number of tenths
I can write decimal equivalents of any number of tenths
I can recognise that hundredths arise when dividing an object by one hundred
I can find the effect of dividing a one- digit number by 100 identifying the value of the digits in the answer as ones, tenths and hundredths
I can find the effect of dividing a two - digit number by 100 identifying the value of the digits in the answer as ones, tenths and hundredths
I can recognise that hundredths arise when dividing tenths by ten
I can recognise decimal equivalents of any number of hundredths
I can write decimal equivalents of any number of hundredths
I can count up in hundredths
I can count down in hundredths
I can compare numbers with the same number of decimal places up to two decimal places
I can recognise decimal equivalents to 1/4

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I can recognise decimal equivalents to 1/2
I can write 1/4 as a decimal
I can write 1/2 as a decimal
I can recognise decimal equivalents to 3/4
I can write 3/4 as a decimal
I can round decimals with one decimal place to the nearest whole number
I can solve simple money problems involving decimals to two decimal places.
I can solve simple measure problems involving decimals to two decimal places
WAS
I can use concrete representations to add thousands, hundreds, tens and ones
I can use concrete representations to subtract thousands, hundreds, tens and ones
I can add two four digit numbers with no exchange
I can add two four digit numbers with one exchange
I can add two four digit numbers with multiple exchanges
I can add numbers with up to 4 digits using the formal written methods of columnar addition where appropriate
I can subtract two four digit numbers with no exchange
I can subtract two four digit numbers with one exchange
I can subtract two four digit numbers with multiple exchanges
I can subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate
I can estimate answers for calculations
I can decide which operations to use and why
I can decide which method is the most efficient to use and why
I can use inverse operations to check answers to a calculation
I can solve addition two-step problems in contexts
I can solve subtraction two-step problems in contexts
STA
I can present discrete data using appropriate graphical methods, including bar charts
I can interpret discrete data using appropriate graphical methods, including bar charts
I can present discrete data using appropriate graphical methods, including time graphs

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I can interpret discrete data using appropriate graphical methods, including time graphs
I can interpret continuous data using appropriate graphical methods, including time graphs
I can interpret continuous data using appropriate graphical methods, including bar charts
I can present continuous data using appropriate graphical methods, including time graphs
I can present continuous data using appropriate graphical methods, including bar charts
I can solve comparison problems using information presented in bar charts
I can solve sum problems using information presented in bar charts
I can solve difference problems using information presented in bar charts
I can solve difference problems using information presented in pictograms
I can solve sum problems using information presented in pictograms
I can solve comparison problems using information presented in pictograms
I can solve comparisom problems using information presented in tables
I can solve comparison problems using information presented in other graphs
I can solve sum problems using information presented in tables
I can solve sum problems using information presented in other graphs
I can solve difference problems using information presented in tables
I can solve difference problems using information presented in other graphs
GPS
I can use an angle tester to check if an angle is larger or smaller than a right angle
I can compare and order angles in ascending and descending order
I can compare angles up to two right angles by size
I can order angles up to two right angles by size
I can use an angle tester to find out if an angle is acute or obtuse
I can identify acute angles
I can identify obtuse angles
I can sort shapes into examples and non-examples of polygons
I can classify triangles using the names isosceles, scalene and equilateral
I can use a ruler to measure the side of a triangle accurately
I can compare the similarities and differences between triangles and use these to help identify, sort and draw

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I can compare geometric shapes, including triangles, based on their properties and sizes
I can classify geometric shapes, including triangles, based on their properties and sizes
I can name quadrilaterals including a square, rectangle, rhombus, parallelogram and trapezium.
I can describe the properties and highlight the similarities and differences between different quadrilaterals
I can accurately draw quadrilaterals
I can compare geometric shapes, including quadrilaterals, based on their properties and sizes
I can classify geometric shapes, including quadrilaterals, based on their properties and sizes
I can explore lines of symmetry in shapes using mirrors and tracing paper
I can identify lines of symmetry in 2-D shapes presented in different orientations
I can complete a simple symmetric figure with respect to a specific line of symmetry
GPD
I can describe positions on a 2-D grid as coordinates in the first quadrant
I can read, write and use pairs of coordinates
I can plot specified points on a 2D grid
I can draw sides to complete a given polygon.
I can describe movements between positions as translations of a given unit to the left/right
I can describe movements between positions as translations of a given unit up/down
MEA
I can convert between different units of measure – length
I can convert metres to kilometres in real life context (running, swimming, cycling etc)
I can calculate the perimeter of rectilinear shapes by counting squares on a grid
I can calculate the perimeter of rectangles that are not on a square grid where some values may be missing
I can calculate the perimeter of rectilinear shapes from diagrams without grids
I can measure the perimeter of a rectilinear figure (including squares) in centimetres
I can calculate the perimeter of a rectilinear figure (including squares) in metres
I can measure the perimeter of a rectilinear figure (including squares) in centimetres
I can calculate the perimeter of a rectilinear figure (including squares) in metres
I can estimate different measures – length
I can convert between different units of measure – time

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I can convert between analogue and digital times using a format up to 12 hours
I can use am and pm to distinguish between times in the morning and afternoon
I can read time on analogue and digital 12- and 24-hour clocks
I can write time on analogue and digital 12- and 24-hour clocks
I can estimate different measures - time
I can compare different measures - time
I can calculate different measures - time
I can convert time between analogue and digital 12- and 24-hour clocks
I can solve problems involving converting from hours to minutes;
I can solve problems involving converting minutes to seconds;
I can solve problems involving converting weeks to days
I can solve problems involving converting months to years
I can use models such as part whole model, to recognise the total amount partitioned into pounds and pence
I can use my understanding that £1 = 100p to compare amounts
I can order amounts represented in the same format
I can order amounts represented in different formats
I can convert between different units of measure – money
I can estimate the total of two amounts
I can estimate the total of more than two amounts
I can round amounts of money written in decimal notation to the nearest pound
I can solve simple problems with money using addition
I can solve simple problems with money using subtraction
I can solve simple problems with money using multiplication
I can solve simple problems with money using division
I can convert between different units of measure – weight
I can estimate different measures – weight
I can compare different measures – weight
I can calculate different measures – weight
I can convert between different units of measure – volume/capacity

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I can estimate different measures – volume/capacity
I can compare different measures – volume/capacity