## Onton Wistow Primary school - Cumiculum Plan

Subjeck :
Mafhs
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4
Unifi : Number and Place Value

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| Vocabulary | Knowledge <br> What children will know |  |  | Understanding <br> What children will understand |  |  | Skills <br> What children will be able to do |  |  |
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| Tenths, hundredths <br> Decimal (places) <br> Round (to nearest) <br> Thousand more/less than <br> Integers - a number which is not a fraction; a whole number From the Latin meaning intact, whole <br> Negative - a number which is less than zero <br> Positive - a number which is greater than zero <br> Negative integers - When referring to negative numbers always use this language not minus, e.g. negative 4 rather than minus 4 <br> Count through zero <br> Consecutive numbers- numbers that follow each other in an unbroken sequence. | - Pupils know the Roman numerals from 1 to 100. <br> - Pupils know that in the Roman system there is no symbol for zero so no placeholders <br> - Pupils know that over time, the number system changed to include the concept of zero and place value <br> - Pupils know to look at the ones column when rounding to the nearest 10 <br> - Pupils know to look at the tens column when rounding to the nearest 100 <br> - Pupils know to look at the hundreds column when rounding to the nearest 1000 <br> - Pupils know that 1000 is made up of ten hundreds <br> - Pupils know there are 225 sin 50 and 425 s in 100 <br> Stem Sentences <br> 'The whole is divided into ten equal parts; each part is one tenth of the whole.' |  |  | - Pupils understand what is the same and what is different between the number systems <br> - Pupils understand the position of 2 and 3 -digit numbers on a number line in order to round up or down <br> - Pupils understand that although 5 is in the middle of 0 and 10 , the convention is that any number ending in 5 is rounded up <br> - Pupils understand which two multiples of 100 a three-digit number sits between. <br> - Pupils know which multiples of 1000 and four-digit number sits between. <br> - Pupils understand that a four-digit number is made up of thousands, hundreds, tens and ones <br> - Pupils understand that numbers can be partitioned in various ways, e.g. $5000+300+20+9$ is equal to $4000+1300+10+19$ <br> - Pupils understand that there are numbers below zero <br> - Pupils understand the real life context of negative numbers, e.g. temperature or water depth |  |  | - Count in multiples of 6,7,9,25 and 1000 <br> - Find 1000 more or less than a given number <br> - Count back through zero to include negative numbers <br> - Order and compare numbers beyond 1000 <br> - Round numbers to the nearest 10 , 100 or 1000 <br> - Identify and represent numbers using concrete materials, pictures and numerals <br> - Read Roman numerals to 100 (I to C) |  |  |


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| Roman numerals (I to C) | One tenth can be written as 0.1 so $\qquad$ tenths can be written as 0 . $\qquad$ <br> One is equal to ten tenths. $\qquad$ tenths plus $\qquad$ tenths is equal to ten tenths, which is equal to one. <br> 'The whole is divided into one hundred equal parts; each part is one hundredth of the whole.' <br> To compare two numbers, we compare digits with the same place value, starting with the largest placevalue digit. |  |  |  |  |  |  |  |  |


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| Addition <br> Add, more, and, make, sum, total, altogether <br> Double <br> Near double <br> Half, halve <br> One more, two more... ten more <br> Addends - the numbers added <br> together to make the sum <br> Subtraction <br> Take away, minus, fewer, less, difference between <br> One less, two less... ten less <br> Minuend - a quantity or number from which another is to be subtracted <br> Subtrahend - a quantity or number to be subtracted from another. <br> Equals <br> Is equal to, is the same as <br> Number bonds <br> Number pair <br> Number facts <br> Part, part, whole <br> Partition <br> Recombine <br> Missing number <br> Tens boundary / Hundreds boundary <br> Commutative - involving the condition <br> that a group of quantities connected <br> by operators gives the same result | - Pupils know that when multiples of 100 are added or subtracted, the sum or difference is always a multiple of 100. <br> - Pupils know how to record exchanges <br> - Pupils know when it is appropriate to use mental strategies and when to use written strategies <br> - Pupils know that numbers can be rounded to simplify calculations or to indicate approximate sizes. <br> - Pupils understand that they can use the same calculation methods learnt for three-digit numbers when calculating four-digit numbers. |  |  | - Pupils understand why exchanges are needed <br> - Pupils understand multiple exchanges within an addition <br> - Pupils understand when to exchange in different place value columns <br> - Pupils understand subtractions where there is more than one exchange |  |  | - Use concrete objects and pictorial representations to add and subtract <br> - Use formal written methods of columnar addition and subtraction of up to 4-digit numbers <br> - Use knowledge of rounding to estimate the answer to a calculation <br> - Use inverse operations to check answers <br> - Solve two-step problems in contexts <br> - Use bar modelling to solve problems <br> - Can recognise patterns between calculations to enable them to predict answers <br> - Pupils can compare different methods of addition and subtraction |  |  |


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| whatever the order of the quantities involved, e.g. $a \times b=b \times a$. |  |  |  |  |  |  |  |  |  |

## Onton Wistow Prinnary School - curriculun Plan

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| Multiplication <br> Multiply <br> Multiplied by <br> Groups of <br> Times <br> Repeated addition <br> Multiple - The result of multiplying a number by an integer (not by a fraction). | - Pupils will know the multiplication and division facts up to $12 \times 12$. <br> - Pupils know that any number multiplied by zero will have a product of zero. <br> - Pupils know that when a number is multiplied or divided by 1 , the productor quotient remains the same. <br> - Pupils know that products in the 12 times table are double the products in the 6 times table. |  |  | - Pupils understand that multiplication is commutative but division is not. <br> - Pupils understand making a number ten times bigger is the same as 'multiply by 10. .' <br> - Pupils understand making a number a hundred times bigger is the same as 'multiply by 100.' <br> - Pupils understand what is happening to the place value of |  |  | - Pupils will use concrete resources and pictorial representations to show multiplication and division, including multiplying and dividing by 10 and 100 . <br> - Pupils can count in equal groups of 6,7 and 9 . <br> - Pupils will be able to use mental methods, e.g. partitioning to multiply two-digit numbers by onedigit numbers. |  |  |


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| Factor - Numbers we can multiply together to get another number. <br> Multiplicand - The number to be multiplied <br> Multiplier - The number by which the multiplicand is multiplied by <br> Product - The result of a multiplication <br> Multiplication: <br> Division <br> Dividing <br> Divide <br> Divided by <br> Divided into <br> Grouping <br> Sharing <br> Shared equally <br> Left over <br> Remainder <br> Equal groups of <br> Dividend - The amount that you want to divide up. | - Pupils know that multiplying by 100 is equivalent to multiplying by 10 and then multiplying by 10 again. <br> - Pupils know that dividing by 100 is equivalent to dividing by 10 and then dividing by 10 again. <br> - Pupils know that when using the 'short multiplication' algorithm, you start from the least significant digit (on the reight) to the most significant digit (on the left). <br> - Pupils know that if the product in any column is ten or greater, we must 'regroup'. <br> - Pupils know that objects can be divided into equal groups and sometimes this leads to a remainder. | each digit when multiplying or dividing by 10 or 100 . <br> - Pupils understand that multiplication facts can be derived from related known facts by partitioning one factor (distributive law) e.g. $6 \times 3$ can be found by $(2 \times 3)+(4 \times 3)$. <br> - Pupils understand that they can use the distributive law to derive multiplication facts beyond the known times tables. |  |  | - Pupils will be able to partition three-digit numbers into hundreds, tens and ones to multiply by a single digit number. <br> - Pupils will be able to use formal written methods to multiply twodigit numbers and three-digit numbers by one-digit numbers. |  |  |


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| Divisor - The number we divide by. <br> Quotient - The answer after we divide one number by another. <br> dividend $\div$ divisor $=$ quotient. <br> Commutative law - The Law that says you can swap numbers around and still get the same answer when you add or when you multiply. <br> Ditributive law - multiplying a number by a group of numbers added together is the same as doing each multiplication separately. <br> Doubling <br> Halving <br> Array <br> Multiplication table <br> Multiplication fact <br> Division fact | "Multiplying by one hundred is equivalent to multiplying by ten and then multiplying by ten again." <br> "If one factor is made ten times the size, the product will be ten times the size." <br> "If one factthe dividend is made ten times the size, the quotient will be ten times the size." <br> "If the dividend is a multiple of the divisor there is no remainder." <br> "If the dividend is not a multiple of the divisor, there is a remainder." <br> "The remainder is always less than the divisor." |  |  |  |  |  |  |  |  |


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| Sublect: Mathematics | Year:4 | Unifi : Fractions |  |


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| fraction <br> unit fraction - a fraction with <br> a numerator of 1 <br> Non-unit fraction - a fraction <br> where the numerator is <br> greater than 1 <br> equivalent fraction - equal in value <br> mixed number - a whole <br> number and a fraction <br> combined into one number <br> numerator, <br> denominator <br> equal part <br> equal grouping <br> equal sharing <br> parts of a whole <br> half, two halves <br> one of two equal parts <br> quarter, two quarters, three <br> quarters <br> one of four equal parts <br> one third, two thirds <br> one of three equal parts | - Pupils know that when you multiply the numerator and denominator by the same number, the result is an equivalent fraction. <br> - Pupils know how many equal parts make a whole. <br> - Pupils know a mixed number contains a whole number and a fraction. <br> - Pupils know that when adding fractions with the same denominator, you only add the numerator and the denominator remains the same. <br> - Pupils know that when subtracting fractions with the same denominator, you only subtract the numerator and the denominator remains the same. <br> Stem Sentences |  |  | - Pupils understand the meaning of numerator and denominator. <br> - Pupils understand the relationship between the numerator and denominator when recognising equivalent fractions. <br> - Pupils understand that multiplication and division can be used to find equivalent fractions. <br> - Pupils understand how to partition a fraction using number bonds in order to make one whole. <br> - Pupils understand how to use unit fraction of a whole to find non-unit fractions of a whole. |  |  | - Pupils can use a number line to represent hundredths. <br> - Pupils can count forward and backwards in hundresths. <br> - Pupils can recognise and name fractions in different representations. <br> - Pupils can use fraction walls to find equivalent fractions. <br> - Pupils can use proportional reasoning to find equivalent fractions. <br> - Pupils can use concrete and pictorial representations to represent a mixed number. <br> - Pupils can place mixed numbers on a pre-constructed number line. <br> - Pupils can use bar models to represent fractions greater than a whole. <br> - Pupils can add fractions and record answers greater than one as a mixed number. <br> - Pupils can subtract fractions from a whole amount |  |  |  |  |


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| sixths, sevenths, eighths, tenths, hundredths ... | There are 2 groups of five-fifths, which is 10 fifths and 3 more fifths. This is 13 fifths. <br> We have 21 eighths. 8 eighths is equal to 1 (whole). 21 eighths is equal to 2 groups of 8 eighths, and 5 more eighths. This is 2 and 5 eighths. <br> 7 one-fifths plus 4 one-fifths is equal to 11 one-fifths. <br> When adding fractions with the same denominators, just add the numerators. When subtracting fractions with the same denominators, just subtract the numerators. |  |  |  |  |  | - Pupils can use bar models to show how to find non-unit fractions of a whole. |  |  |

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| tenths <br> hundredths <br> decimal decimal fraction decimal point decimal place decimal equivalent | - Pupils 0.1 <br> - Pupils in 1. <br> - Pupils much <br> - Pupils in 0.1. <br> - Pupils much <br> - Pupils 1/100 <br> Stem Sent <br> 1 is 10 time <br> One-tenth hundredth <br> 1 is 100 tim hundredth <br> 10 tenths is <br> 10 hundre <br> 100 hundre | w that 1 te <br> w that the <br> w that 1 is 0.1. <br> w that the <br> w that 0.1 <br> 0.01 <br> w that 1 h 01 <br> es <br> e size of on <br> 0 times the <br> he size of <br> ual to 1 on <br> is equal to <br> ss is equal | $h=1 / 10=$ <br> are ten 0.1 <br> times as <br> are ten 0.01 <br> 0 times as <br> dredth = <br> -tenth. <br> ze of one- <br> tenth. <br> 1 one. | - Pupils understand that 10 tenths are equivalent to 1 . <br> Pupils understand that 10 hundredths are equivalent to one tenth. <br> - Pupils can understand the place value of each digit in a number with 2 decimal places. <br> - Pupils understand that when comparing numbers, they need to start with comparing the digits in the place with the largest value. <br> - Pupils understand when dividing by 10 the number is being split into 10 equal parts and is 10 times smaller. <br> - Pupils understand when dividing by 100 the number is being split into 100 equal parts and is 100 times smaller. <br> - Pupils understand the importance of 0 as a place holder. <br> - Pupils understand how to round a number with 1 decimal place to the nearest whole number. |  |  | - Pupils can read and write numbers consisting of ones and tenths. <br> - Pupils can regroup 10 tenths to make 1. <br> - Pupils can rewrite tenths from a fraction to a decimal. <br> - Pupils can place a decimal number on a number line. <br> - Pupils can use Base 10 blocks to show a decimal consisting of ones, tenths and hundredths. <br> - Pupils can write fractions as decimals. <br> - Pupils can write mixed numbers as decimals. <br> - Pupils can write tenths as decimals. <br> - Pupils can write hundredths as decimals. <br> - Pupils can regroup 10 hundredths as 1 tenth. <br> - Pupils can combine ones, tenths and hundredths to make a decimal number. <br> - Pupils can compare and order numbers with 2 decimal places. <br> - Pupils can add/subtract tenths to a number. <br> - Pupils can add/subtract hundredths to a number. |  |  |

Orion Wisiow Primary School = Curiculum Plan

## Unin : Siaxistics

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| count, tally, sort, vote survey, questionnaire, data graph, line graph represent group, set list, table, chart, frequency table label, title, axis, axes, origin, horizontal axis, vertical axis diagram compare, sum, difference | - Pupils know which scale will be the most appropriate when drawing their own bar charts and which key will be the most appropriate for a pictogram. <br> - Pupils know that line graphs can show changes of a variable, such as temperature, over time. <br> - They know about continuous data. <br> - Pupils know that using dashed rather than solid lines is useful, as it emphasises that they show the trend in the change, not the exact values. <br> - Pupils know that the axes represent different variables. |  |  | - Pupils understand how to interpret data. <br> - Pupils understand how to use key addition and subtraction skillsblock to answer questions. <br> - Pupils understand that temperature can change all the time rather than be counted, and so representing it as a bar chart or pictogram would not be appropriate. <br> - Pupils understand that for many line graphs, the values are only known for specific times and reading off any other values will only give an estimate. |  |  | - Pupils can gather their own data and then present it as a bar chart or pictogram. <br> - Pupils can solve comparison, sum and difference problems using discrete data. <br> - Pupils can ask their own questions about the data in pictograms, bar charts and tables. <br> - Pupils can apply their knowledge of scales on a graph to read a line graph accurately. <br> - Pupils can use their knowledge of scales to accurately draw line graphs, ensuring that they label the axes correctly. <br> - Pupils can accurately plot data and choose appropriate scales. |  |  |

Fi Onfon Wistiow Primary school - Cumiculum Plan

## Subject: Mafthematics

Year: 4
Unifi : Position and Direction

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| Coordinates <br> Axes <br> $X$ axis <br> Y axis <br> Quadrant <br> First quadrant <br> clockwise, anticlockwise <br> compass point <br> north, south, east, west, N, S, E, W <br> north-east, north-west, south-east, <br> south-west, NE, NW, SE, SW <br> horizontal, vertical, diagonal <br> translate, translation <br> movement <br> whole turn, half turn, quarter turn, <br> three-quarter turn <br> rotate, rotation <br> angle, is a greater/smaller angle than <br> degree <br> right angle <br> acute angle <br> obtuse angle <br> reflection <br> straight line | - Pupils know how to read and write coordinates. <br> - Pupils know that when reading and writing coordinates, the X axis is read first. <br> - Pupils know the notation of coordinates within brackets. <br> - Pupils know that when translating shapes, each vertex must make the same movement. <br> - Pupils know that when translating shapes, you move along the $X$ axis first (left /right) before moving along the $Y$ axis (up/down) <br> Stem Senteces <br> "The polygon has been translated 4 squares to the right and 3 squares down." <br> "First count along the x-axis, then count along the $y$-axis." |  |  | - Pupils understand why describing the distance from 2 locations gives and accurate position. <br> - Pupils understand that points must be plotted on grid lines not between them. <br> - Pupils understand that when translating a shape, the shape itself does not change. |  |  | - Pupils can use the grid to describe position. <br> - Pupils can describe position accurately. <br> - Pupils can describe the position of vertices from the $x$ and $y$ axis. <br> - Pupils can describe a translation given the final coordinates of one vertex of the shape. <br> - Pupils can use a coordinate grid to translate figures. |  |  |

## Subjech: Mathematics

> Year: ©

## Unifi : Properties of Shape

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| 2-D shape <br> Polygon (from Greek "many-angled) <br> Quadrilateral (Latin quadrilaterus, <br> from quadri- "four" and latus "the side, flank of humans or animals, <br> lateral surface,") <br> Regular, irregular <br> Vertex, vertices <br> sides <br> point, pointed <br> Triangles <br> Isosceles (Greek isoskelēs, <br> from isos 'equal' + skelos 'leg'.) <br> Scalene (Greek skalēnos 'unequal'; <br> related to skolios 'bent'.) <br> Equilateral (Latin aequilateralis, <br> from aequilaterus 'equal-sided') <br> Quadrilaterals <br> Square <br> Rectangle <br> Rhombus <br> Parallelogram <br> Trapezium <br> 3-D shape <br> Face <br> Edge | - Pupils know that an acute angle is more than 0 degrees and less than 90 degrees. <br> - Pupils know that a right-angle is exactly 90 degrees. <br> - Pupils know that an obtuse angle is greater than 90 degrees and less than 180 degrees. <br> - Pupils know that equilateral triangles have equal vertices of 60 degrees. <br> - Pupils know that a rhombus has equal length sides but not angles. <br> Stem Sentences |  |  | - Pupils understand regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. <br> - Pupils understand whether a shape is a polygon or not. <br> - Pupils understand that rightangled triangles can be either isosceles or scalene triangles but cannot be equilateral triangles. <br> - Pupils understand that a square is a type of rectangle. <br> - Pupils understand that where line symmetry exists within a shape, the shape can be split into two parts which are a reflection of one another. |  |  | - Pupils can use an angle tester to check if an angle is larger or smaller than a right angle. <br> - Pupils can compare and order the size of angles in ascending and decending order. <br> - Pupils can identify angles in different representations, including in shapes and on a grid. <br> - Pupils can classify triangles using the names 'isosceles', 'scalene' and 'equilateral'. <br> - Pupils can classify quadrilaterals according to their properties. <br> - Pupils can Identify line symmetry in 2D shapes presented in different orientations. <br> - Pupils can reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry |  |  |



## Ein Onion Wisiow Primary School o Cumriculum Plan in

Subject: Marthemafics


|  |  |  |  |  |  |  | WPS Curriculum 2.0 |  |  |
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|  |  |  |  |  |
| Vocabulary | Knowledge <br> What children will know |  |  |  |  |  | Understanding <br> What children will understand |  |  | Skills <br> What children will be able to do |  |  |
| Define the word and include etymology if useful. | Learning | Teaching | Assessment | Learning | Teaching | Assessment | Learning | Teaching | Assessment |
|  | Remembering | Telling | Testing | Practising | Coaching | Observing | Reflecting | Facilitating | Evaluating |
|  | The perimetre is the total length around a 2D shape. <br> To calculate the perimeter of a square, measure the length of one side and multiply by 4. <br> To calculate the perimetre of a rectangle, find the sum of the length and the bredth and then multiply by 2 . |  |  |  |  |  |  |  |  |

## Onton Wisiow Primary School - Cumiculum Plan im

## Subject : Mathematics

Year: 4

Define the word and include etymology if useful.
money
coin
penny, pence, pound price, cost


Knowledge
What children will know


Understanding

What children will understand Learning $\quad$ Teaching $\quad$ Assessmen | Remembering | Telling $\quad$ Testing |
| :--- | :--- |

- Pupils know that $10 \times 10 \mathrm{p}=£ 1$
- When comparing amounts, pupils know the order of the digits to compare based on their place value.
- Pupils understand decimal notation for pounds and pence.
- Pupils understand why we write a decimal point between the pounds and the pence.


## Unifi : Money

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| money <br> coin <br> penny, pence, pound price, cost | - Pupils know that £ $1=100 \mathrm{p}$ <br> - Pupils know that $10 \times 10 p=£ 1$ <br> - When comparing amounts, pupils know the order of the digits to compare based on their place value. |  |  | - Pupils understand decimal notation for pounds and pence. <br> - Pupils understand why we write a decimal point between the pounds and the pence. |  |  | - Pupils can convert between pounds and pence. <br> - Pupils can compare amounts of money with different amounts of pounds. |  |  |


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| etymology if useful. | Remembering | Telling | Testing | Practising | Coaching | Observing | Reflecting | Facilitating | Evaluating |
| buy, bought, sell, sold spend, spent <br> pay <br> change <br> dear, costs <br> more <br> cheap, costs less, cheaper <br> costs the same as <br> how much ...? <br> how many ...? <br> total |  |  |  | - Pupils understand the equivalence between $\frac{1}{10}, \frac{1}{100}$ and 10 p and 1 p . <br> - Pupils understand how to put decimal numbers on a number line when rounding to the nearest pound. <br> - Pupils understand the importance of the place holder when writing amounts, e.g. three pounds and 5 pence is written as $£ 3.05$ not $£ 3.5$. |  |  | - Pupils can compare amounts of money when the amount of pounds are the same. <br> - Pupils can round amounts to the nearest £ and the nearest $£ 10$. |  |  |



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|  |  | Telling | Testing |  | Coaching | Observing |  | Facilitating | Evaluating |
| time <br> days of the week, Monday, <br> Tuesday ... <br> months of the year (January, <br> February ...) <br> seasons: spring, summer, autumn, <br> winter <br> day, week, weekend, fortnight, <br> month, year, century <br> morning, afternoon, evening, night <br> today, yesterday, tomorrow <br> before, after earlier, later next, first, <br> last <br> midnight <br> noon <br> calendar, date <br> now, soon, early, late, earliest, <br> latest <br> quick, quicker, quickest, quickly <br> slow, slower, slowest, slowly <br> old, older, oldest <br> new, newer, newes $\dagger$ <br> takes longer, takes less <br> how long ago? <br> how long will it be to ...? <br> how long will it take to ...? <br> how often? <br> always, never, often, sometimes <br> usually <br> once, twice | - Pupils know the number of seconds in 1 minute. Pupils know the number of seconds in 10 minutes. <br> - Pupils know the number of months in a year. |  |  | - Pupils understand that how many minutes past the hour determines the digital time. <br> - Pupils understand the difference between a.m times and p.m times. <br> - Pupils understand the relationship between multiplying by 6 and multiplying by 60 when converting times. |  |  | - Pupils can tell time to the minute and hour using an analogue clock. <br> - Pupils can use a.m. and p.m. to describe the time of day. <br> - Pupils can use a clock to show and tell time. <br> - Pupils can use 12-hour time notation. <br> - Pupils can use 24 -hour time notation. <br> - Pupils can convert 12-hour time into 24 -hour time and vice versa. <br> - Pupils can determine the duration of time using analogue and digital clocks, 12- and 24-hour time. <br> - Pupils can use a number line to compare 12- and 24-hour time. <br> - Pupils can convert minutes into seconds and vice versa. |  |  |




[^0]:    Subject: Mathematics

