## Orfon Wistow Primary school - Curriculum Plan

## Subjecc :

Maths
Yeđึ:
5
Unifi : Number and Place Value

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| etymology if useful. | Remembering | Telling | Testing | Practising | Coaching | Observing | Reflecting | Facilitating | Evaluating |
| Millions <br> Factor pair - a pair of numbers multiplied together form another number called their product. <br> Powers of 10 - A power of 10 is the number 10 multiplied by itself a number of times. <br> $\geq$ - Greater than or equal to <br> $\leq$ - Less than or equal to <br> $\approx$ - Approximately <br> Divisibility - can be divided evenly without leaving a remainder. <br> Square number - a number that results from multiplying an integer by itself which can be represented in the shape of a square. <br> Prime number - a number that has exactly two factors. It can only be divided evenly by itself and one. | - Pupils <br> 1000 <br> - Pupils colum numbe 1000 a <br> - Pupils colum value <br> - Pupils when throug <br> Stem Sente <br> Ten one th thousand. <br> One hundr thousand. <br> Ten ten tho thousand. <br> One hundr one hundr $\qquad$ is less $\qquad$ thousa thousand. | w Roman n <br> w which pl look at wh o the near 10000 w to focus ith the high n compari w to includ unting up or ro es <br> ands make <br> hundreds m <br> ands make <br> one thousa thousand. <br> an $\qquad$ ,so is less than | merals up to <br> e value <br> n round <br> t 10, 100, <br> the <br> st place numbers the zero ack <br> en <br> ake ten <br> ne hundred <br> ds make | - Children understand what is happening in the place value columns when adding 10,100 and 1000 <br> - Pupils understand what is the same and what is different about our number system and the Roman numeral system <br> - Pupils understand which two numbers a given number lies between when rounding. <br> - Pupils understand the convention of rounding up if numbers are exactly halfway <br> - Pupils understand when rounding is valuable, e.g. populations of countries or when packing 53 items into boxes of 10 you need 6 boxes <br> - Pupils understand negative numbers in context, such as temperature |  |  | - Count forward and back in steps of powers of 10 for any given number up to 1,000,000 <br> - Interpret negative numbers in context <br> - Count forwards and backwards with positive and negative whole numbers, including through zero <br> - Read, write, order and compare numbers up to $1,000,000$ and determine the value of each digit <br> - Use concrete materials and pictorial representations when representing numbers up to 1,000,000 <br> - Round any number up to $1,000,000$ to the nearest $10,100,1000,10000$ and 100000 <br> - Read Roman numerals to 1000 (M) and recognise years written in Roman numerals <br> - Recognise square numbers and cube numbers |  |  |


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|  | Negative numbers are less than zero. <br> Negative numbers are below zero. <br> Positive numbers are greater than zero. <br> Positive numbers are above zero. <br> For both negative and positive numbers, the larger the value of the number, the further it is away from zero. |  |  |  |  |  |  |  |  |

Sulbject : Maths
Year: :5 /6


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| Approximate - something is almost, but not completely, accurate or exact; roughly |  |  |  |  |  |  |  |  |  |

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## Orton Wisiow Primary school - Cumiculum Plan

## Subject: Mathematics

Year: 5


What children will know | Learning | Teaching Assessment |
| :--- | :--- |
| Remembering | Teling |

- Pupils know that the commutative law can be applied when multiplying three or more numbers.
- Pupils know that 1 is a factor of all positive intergers.
- Pupils know that 1 is not a prime number (it only has one factor.)
- Pupils know that 2 is the only even prime number.
- Pupils know the notation for squared is ${ }^{2}$.
- Pupils know the squared numbers up to $12 \times 12$.


## Understanding

What children will understand
Practising $\quad$ Coaching $\quad$ observing

- Pupils understand the relationship between multiplication and division.
- Pupils understand the invesrse relationship between factors and multiples.
- Pupils understand that a multiple of a number is the product of the number and another whole number.
- Pupils understand that some numbers only have two factors (themselves and one) and these

Unifi : Mulkiplicafion and Division


Skills
What children will be able to do Learning $\quad$ Teaching Assessment

- Pupils have automatic recall of multiplication and division facts within the times tables.
- Pupils can use systematic methods to find all the factors of a positive integer.
- Pupils can use concrete and pictorial representations to build multiples of numbers.
- Pupils can find common factors of two numbers.
- Pupils can recall prime numbers up to 19.


| Vocabulary |  |  |  |  |  |  | S Curriculum 2.0 |  |  |
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| Dividend - The amount that you want to divide up. <br> 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> Prime number - A number that is only divisible by itself and 1 to leave a whole number. <br> Composite number - A whole number that can be made by multiplying other whole numbers. <br> Square number - the number we get after multiplying an integer (not a fraction) by itself. <br> Cubed number - The whole number is used three times, just like the sides of a cube. |  |  |  |  |  |  |  |  |  |



## Orfon Wisiow Primary School - Cumileulum Plan

## Ye@: 5

## Unifi : Decimals

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| tenths hundredths thousandths decimal decimal fraction decimal point decimal place decimal equivalent | - Pupils know what the decimal point means <br> - Pupils know tenths are worth more than hundredths and hundredths are worth more than thousandths. <br> - Pupils know that 1 tenth $=1 / 10=$ 0.1 <br> - Pupils know that there are ten 0.1 in 1. <br> - Pupils know that 1 is 10 times as much as 0.1. <br> - Pupils know that 1 hundredth = $1 / 100=0.01$ <br> Pupils know that there are ten 0.01 in 0.1. <br> - Pupils know that 0.1 is 10 times as much as 0.01 <br> - Pupils know that 1 thousandth $=$ 1/1000=0.001 <br> - Pupils know that there are ten 0.001 in 0.01 , one hundred 0.001 in 0.1 and one thousand 0.001 in 1. <br> - Pupils know to look at the digit in the first decimal place when identifying which number is bigger <br> Stem Sentences |  |  | - Pupils understand the place value of each digit in a number with 2 decimal places <br> - Pupils understand the relative size of plave-value blocks to identify the different values of decimal numbers. <br> - Pupils understand how to round a decimal to the nearest whole number. <br> - Pupils understand how to round a decimal to the nearest tenth. <br> - Pupils understand the process of exchanging whole numbers into tenths and tenths into hundredths to subtract decimals efficiently. <br> - Pupils understand the links with number bonds to 10,100 and 1000 when adding decimals. <br> - Pupils understand the importance of lining up the decimal point in order to ensure the correct place value when adding and subtracting numbers with different decimal places. |  |  | - Pupils can show decimal numbersusing concrete representations. <br> - Pupils can rename tenths, hundredths and thousandths. <br> - Pupils can partition decimal numbers in different ways. <br> - Pupils can convert fractions into deciamals and vice versa. <br> - Pupils can compare and order decimal numbers with up to three decimal places. <br> - Pupils can place decimal numbers on a number line. <br> - Pupils can use concrete representations to add and subtract decimal numbers. <br> - Pupils can use their understanding of column addition when adding and subtracting decimal numbers. <br> - Pupils can lay out the column method accurately using decimal numbers. <br> - Pupils can use a number line to count on from a smaller decimal to a larger decimal. |  |  |

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|  | Remembering | Telling | Testing | Practising | Coaching | Observing | Reflecting | Facilitating | Evaluating |
|  | 1 is 10 times the size of one-tenth. <br> One-tenth is 10 times the size of onehundredth. <br> 1 is 100 times the size of onehundredth. <br> 10 tenths is equal to 1 one. <br> 10 hundredths is equal to 1 tenth. <br> 100 hundredths is equal to 1 one. <br> 18 hundredths is equal to 10 hundredths and 8 more hundredths. 10 hundredths is equal to 1 tenth. So 18 hundredths is equal to 1 tenth and 8 more hundredths, which is 0.18 . <br> Three hundredths is zero-point-zerothree. |  |  | - Pupils understand the importance of zero as a place holder when adding and subtracting decimal numbers. <br> - Pupils understand the effect of multiplying and dividing both integers and decimal numbers by multiples of 10 ( Highlighting the misconception of adding a zero at the end of the original number.) |  |  | - Children can find complements which sum to make 1. <br> - Pupils can apply their knowledge of calculating decimals to real life contexts such as pounds and pence and measures. <br> - Pupils can multiply decimal numbers by 10, 100 and 1000. <br> - Pupils can divide numbers with decimals by 10,100 and 1000 . <br> - Pupils can use place value charts to show the effect of multiplying and dividing numbers by multiples of 10 . |  |  |




| Vocabulary |  |  |  |  |  |  | OWPS Curiculum 2.0 |  |  |
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| common numerator - when two or more fractions have the same numerator denominator common denominator when two or more fractions have the same denominator equal part equal grouping equal sharing parts of a whole half, two halves one of two equal parts quarter, two quarters, three quarters one of four equal parts one third, two thirds one of three equal parts sixths, sevenths, eighths, tenths, hundredths, thousandths... | Three-fifths is equal to 3 one-fifths. To find 3 one-fifths of 40 , first find one-fifth of 40 by dividing by 5 , and then multiply by 3 . <br> $\frac{1}{4}$ and $\frac{3}{12}$ are equivalent because 1 is the same portion of 4 as 3 is of 12 . |  |  | - Pupils understand the concept of commutativity when multiplying fractions by whole numbers. |  |  |  |  |  |



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| Proportion in every, for every per cent, \% - out of one hundred. Derived from the Latin per centum, meaning "hundred" or "by the hundred". percentage, | - Pupils out of <br> - Pupils <br> Stem Sent <br> 60 out of <br> $50 \%$ is equivi <br> $25 \%$ is equ <br> $75 \%$ is equ | w that per undred. w the symb <br> es <br> 60 per ce <br> ent to $1 / 2$. <br> ent to $1 / 4$. <br> nt to $3 / 4$. | nt means <br> \% | - Pupils understand that percentage is a measure of proportion. <br> - Pupils understand that 'per cent' relates to 'number of parts per hundred'. <br> - Pupils understand the connection of percentages, fractions and decimals. |  |  | - Pupils will recognise different representations which shows different parts of a hundred. <br> - Pupils can convert a fraction with a denominator of 100 into a percentage. <br> - Pupils can convert fractions with denominators that are factors of 100 into hundredths. |  |  |



Subject: Maths


Uniti : Sianistics

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|  | Remembering | Telling | Testing | Practising | Coaching | Observing | - Pupils can decide what intervals to use by looking at the greatest and lowest values and using an appropriate scale. <br> - Pupils can find the difference between two points, the amount of time spent above/below certain points and make inferences based on information presented to them. <br> - Pupils can estimate points between two intervals. <br> - Pupils can work out the information that they need to extract from the table to answer questions on the data. <br> - Pupils can find missing values in the table, such as the total number or one of the parts from given totals. <br> - Pupils can read and interprest timetables such as TV guides and timetables for local buses and swimming pools. |  |  |
| Line graph, continuous data, conversion graph represent group, set list, table, two-way table label, title, axis, axes diagram most popular, most common least popular, least common maximum/minimum value outcome | - Pupils know that reading the graph at specific points gets information about one variable based on the other. <br> - Pupils know that data can be represented in tables. <br> - Pupils know that two-way tables show more than one piece of information about each variable, for example the number of adults and children in a school and how many do/do not wear glasses. <br> - Pupils know that timetables are a special type of two-way table. |  |  | - Pupils understand that joining points using a straight dashed line is used because they cannot be certain of exact values between the given values at two points. <br> - Pupils understand that conversion graphs show exact values. <br> - Pupils understand why the data between two points are only estimates. <br> - Pupils understand the range of possible answers that a two-way table can show, identifying the meaning of each cell by looking at both the horizontal and vertical labels. <br> - Pupils understand why it is important to have this information available and how anyone can read the timetable to understand information they may wish to know. |  |  |  |  |  |

## Orfon Wisfow Primary School - Curriculvm Plan

Subject: Mathematics

Year: 5
Uniti : Postion and Direction

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| Coordinates <br> Axes <br> $X$ axis <br> Y axis <br> Origin $(0,0)$ <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> Symmetry, symmetrical, line of <br> symmetry <br> reflection <br> straight line | - Pupils know the point $(0,0)$ is know as the origin. <br> - Pupils know that to find where a reflected point is located, you can use a mirror or count how far the point is away from the mirror line. <br> - Pupils know that when translating shapes, you should focus on one vertex at a time. <br> - Pupils know when translating shapes, you move along the X axis first (left/right) and then along the Y axis (up/down) <br> - Pupils know the difference between reflection and translation. |  |  | - Pupils understand the first number in a coordinate represents the $X$ coordinate and the second number represents the $Y$ coordinate. <br> - Pupils understand the coordinate is fixed (does not move) wheras a point can be plotted at different coordinates, so it can be moved. <br> - Pupils understand that symmetry is the quality of being made up of exactly similar parts facing each other or around an axis. <br> - Pupils understand that when you reflect an object, you have a mirror image. <br> - Pupils understand that when a shape is translated, the shape itself does not change size nor orientation. <br> - Pupils understand the effect of the translation on the $X$ coordinate and $Y$ coordinate. For example, how does a translation of 3 up affect the $X$ and the $Y$ coordinates? (The X coordinate has not changed) |  |  | - Pupils can plot points on a coordinate grid. <br> - Pupils can identify points on a grid and give the coordinates. <br> - Pupils can explain what translation means. <br> - Pupils can translate a shape accurately. <br> - Pupils can record the vertices of a shape after a translation and write the coordinates correctly. <br> - Pupils can identify symmetrical shapes. <br> - Pupils can draw a reflection when given a shape and a mirror line. |  |  |


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|  |  |  |  | - Pupils understand that different mirror lines produce different reflections. |  |  |  |  |  |

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## Subject: Maftemarics

Year: 5

## Unifi : Properites of Shape

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| 2-D shape <br> Polygon (from Greek "many-angled) Quadrilateral (Latin quadrilaterus, from quadri- "four" and latus "the side, flank of humans or animals, lateral surface,") Regular, irregular Vertex, vertices sides point, pointed <br> Triangles | - Pupils know that angles are measured in degrees ( ${ }^{\circ}$ ) <br> - Pupils know that complete turn is 360 dgrees. <br> - Pupils know that half a turn is 180 degrees. <br> - Pupils know that a quarter turn (right-angle) is 90 degrees. <br> - Pupils know a reflex angle is greater than 180 degrees but less than 360 degrees. <br> - Pupils know that angles on a straight line add to 180 degrees. |  |  | - Pupils understand how to read both inside and outside scales on a protrator. <br> - Pupils understand that two right angles are equivalent to a straight line. <br> - Pupils understand that a straight line is half of a turn. <br> - Pupils understand when they should measure an angle and when they can calculate the size of an angle from given facts. |  |  | - Pupils can use their knowledge of right-angles to estimate the size of acute and obtuse angles. <br> - Pupils can use a protractor to draw angles of a given size. <br> - Pupils can calculate missing angles on a straight line. <br> - Pupils can calculate missing angles around a point. <br> - Pupils can identify 3D shapes from their 2 D nets. |  |  |



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Onton Wistiow Primary school - Curitulum Plan
Unifi : Measures

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| length centimetre metre millimetre kilometre mile foot, feet inch, inches <br> weight mass tonne kilogram gram pound | - Pupils know how to line up a ruler accurately. <br> - Pupils know that milli- means 1/1000 <br> - Pupils know that there are 10 mm in 1 cm . <br> - Pupils know that 1 mm is the same as 0.1 cm . <br> - Pupils know that there are 1000 metres in a kilometre. <br> - Pupils know that 1 m is the same as 0.001 km <br> - Pupils know which operation to use when converting a smaller unit |  |  | - Pupils understand the connections between centimetres and metres. <br> - Pupils understand the connections between metres and kilometres. <br> - Pupils understand the difference between imperial and metric units of measure. <br> - Pupils understand the link between multiplying and dividing by 10,100 and 1,000 when converting between units of length, mass and capacity. <br> - Pupils understand the role of zero as a place holder when performing some calculations, as |  |  | - Pupils can read the scale of a ruler accurately to measure in millimetres and centimetres. <br> - Pupils can write measurements as decimals. <br> - Children read, write and recognise all metric measures for length, mass and capacity. <br> - Pupils can convert between centimetres and metres, including decimals. <br> - Pupils can convert between kilometres and metres, including decimals. |  |  |



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|  | Stem Sentences <br> There are 1000 grams in a kilogram so to convert grams to Kilograms we divide by 1000 . <br> There are 100 centimetres in a metres so when we convert centimetres to metres, we divide by 100 . |  |  |  |  |  |  |  |  |


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| Define the word and include etymology if useful. | Learning | Teaching | Assessment | Learning | Teaching | Assessment | Learning ${ }^{\text {a }}$ Teaching Assessment |  |  |
|  | Remembering | Telling | Testing | Practising | Coaching | Observing | Reflecting | Facilitating | Evaluating |
|  | then include a square if more than half of it is coloured, but not if less than half is coloured. |  |  |  |  |  |  |  |  |

