## Or\}on Wistow Prinnary School - Curiciculun Plon

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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 | Learning | Teaching | Assessment | Learning | Teaching | Assessment | Learning | Teaching | Assessment |
| etymology if useful. | Remembering | Telling | Testing | Practising | Coaching | Observing | Reflecting | Facilitating | Evaluating |
| $\geq$ greater than or equal to <br> $\leq$ less than or equal to <br> Roman numerals <br> integer, positive, negative <br> above/below zero, <br> negative numbers <br> formula - a mathematical rule written using symbols, usually as an equation describing a certain relationship between quantities. <br> Divisibility - can be divided evenly without leaving a remainder. <br> factorise - the reverse of expanding brackets. <br> prime factor - a prime number that divides exactly into another given number. <br> ascending/descending order digit total - the sum of all the digits in a number, e.g. the digit total of 364 is $3+6+4=13$ | - Pupils in a n <br> - Know numb calcu very l popu <br> - Know separ great <br> - Pupils symbo <br> Stem Sent <br> One millio <br> The $\qquad$ <br> The value <br> $\boldsymbol{a}$ is betwe <br> The previo $\qquad$ . Th is $\qquad$ <br> $\boldsymbol{a}$ is neare | w the value er up to 10 it is helpfu e.g. when ns or when numbers s ns. <br> re to put c when writ an 10000 know the in and > <br> es <br> one thousa <br> resents $\qquad$ <br> he $\qquad$ is $\qquad$ and <br> multiple of xt multiple | f each digit 00000 <br> round <br> timating orking with as <br> mmas or numbers <br> quality <br> thousands. <br> - $\qquad$ <br> . $\qquad$ <br> e million is one million | - Pupils understand the importance of the placeholder in numbers <br> - Pupils understand which place value column to look at when rounding numbers <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 where negative numbers are used in real life contexts |  |  | - Can use negative numbers in context and calculate intervals across zero <br> - Can read, write, compare and order numbers up to 10000000 <br> - Can round any number to a required degree of accuracy |  |  |


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|  | $\boldsymbol{a}$ is $\qquad$ when rounded to the nearest million. |  |  |  |  |  |  |  |  |

The NCETM have designed materials to support teachers to develop their subject knowledge and understand the learning steps required in order to successfully teach for mastery. The curriculum has been split into a number of areas called 'spines'.

Each spine has a series of Teacher Guidance documents and a PowerPoint containing the relevant representations which should be used to teach that area of maths. Please refer to these documents alongside this Curriculum Plan.

These Spines can be found on Google Drive:
https://drive.google.com/drive/u/0/folders/1Atxv73hPmXLKFm1tKtm3EHOq5h1UW9kX

White Rose Maths Resources can be found on Google Drive:
https://drive.google.com/drive/u/0/folders/1-SLs60Nea84ECjPB5P1vDqzR9tQ57FCh


## Addition

Add, more, and, make, sum, total, altogether
Double
Near double
Half, halve
One more, two more... ten more
Addends - the numbers added
together to make the sum

## Subtraction

Take away, minus, fewer, less,
difference between
One less, two less... ten less
Minuend - a quantity or number from which another is to be subtracted Subtrahend - a quantity or number to be subtracted from another.
Equals
Is equal to, is the same as
Number bonds
Number pair
Number facts
Part, part, whole
Partition
Recombine

- Pupils will know how to use place value to line up numbers with more than 4 digits accurately
- Pupils will know when an exchange is and isn't needed
- Pupils know how to round numbers in order to estimate
- Pupils know the most appropriate number to round to, e.g. the nearest 10,100 or 1000
- Pupils know that addition can be done in any order but subtraction cannot


## Stem Sentences

If one addend is increased by an amount and the other addend is decreased by the same amount, the sum remains the same.

- Pupils understand '0' as a place holder
- Use manipulatives and pictorial representations to demonstrate how to add and subtract
- Add and subtract increasingly larger numbers mentally
- Use formal written methods to add and subtract numbers greater than 4-digits
- Use rounding to estimate and check answers
- Solve addition and subtraction muti-step problems


