## Term I: The Stone Age- Can you survive the Stone Age?

| Objectives | Approximate number of lessons (70 total) | Investigations/variation | Context |
| :---: | :---: | :---: | :---: |
| Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) | 10 | - Children know that IO ones is the equivalent to I ten- able to show this through pictorial representations, base ten/numicon and oral explanation. <br> - Children recognise and can represent 4-digit numbers using base ten and numicon. <br> - Children to identify the thousands, hundreds, tens and one digit in a four digit number. <br> - Children know the thousand number holds the most value and ones hold the least. <br> Thousands <br> Hundreds Tens Ones <br> 5 thousands <br> Match 4600 to numbers with the same value. <br> INVESTIGATIONS: <br> Guessing the number based on given clues for each digit. | Use Dienes to support children's understanding. |
| Order and compare numbers beyond 1000. | 2 | - Children to order and compare 4-digit numbers using their place value knowledge. <br> - Can orally explain why a number os bigger or smaller- including key terminoligy in their explanation. <br> i.e: thousands, hundreds, tensm, ones, value, higher, lower. <br> - Children to use more than, less than or equal to sign to compare number value. | Comparing numbers related to the Stone Age Use <, > or = to fill in the blanks of questions. <br> Add up the daily miles walked from one week and compare them to another using $<,>$ or $=$. |


|  |  | - Children can order numbers in asending and desending order and know the difference between. <br> 4. Which statement is incorrect? <br> Compare the numbers <br> using $\langle\rangle,,=$, <br> A. $\begin{gathered}\text { Six thousand } \\ \text { and seven }\end{gathered}<6,700$ <br> B. $\quad 5,897>\begin{gathered}6,000+700+ \\ 70+4\end{gathered}$ <br> C. <br> Explain why. <br> Ascecnding onder.... <br> 4658 <br> 2839 <br> 6740 <br> 1829 <br> 5759 <br> Descecrding order.... <br> 5652 <br> 6786 <br> 9562 <br> 7621 <br> 5961 <br> Hom would you compare two numbers that had the same amount of thousands and hundreds? <br> INVESTIGATIONS: <br> eeennili + eenกกกilinii |  |
| :---: | :---: | :---: | :---: |




|  |  | INVESTIAGTIONS: |  |
| :---: | :---: | :---: | :---: |
| Negative Numbers | 3 | - Children use a number line to see positive and negative numbers. <br> - Children know that when adding or subtarcting negative numbers, zero is always counted. <br> - Children can comapre negatibe numbers- knowing that the numbers closer to 0 are bigger. <br> - Children can fill in missing numbers on number lines and in calcualtions. <br> What is the value of the blue dot? | Link negative numbers with temperature as children will be familiar with seeing negative numbers in this context. <br> The colder the temperature the smaller the number- this will help minimise misconceptions about negative numbers, i.e. 20 being more than -2. |




| Recall multiplication and division facts for multiplication tables up to $12 \times 12$ | 10 <br> (and then revised throughout the year) | - Children to use TT Rockstars at least three times a week during school time. <br> - Children focus on different times tables at the beginning of the week. <br> - Children's time and accuracy increases. <br> - Children know the inverse dividion facts as well. <br> INVESTIGATIONS: <br> These sixteen children are standing in four lines of four, one behind the other. They are each holding a card with a number on it. <br> Each child in blue is holding a number which is four more than the child in the same row wearing red. <br> The children in yellow shirts each have a number which is double the number of the child in the same row wearing red. <br> Some of the numbers that the children in red, blue or yellow shirts are holding have got rubbed off. What should the numbers be? <br> Can you work out how the numbers that the children in green are holding have been worked out? What are the two missing numbers? <br> If there was another row of four children standing behind the fourth row, what numbers would they be holding? | Children to take part in TT Rockstar battles within school and against the academy. |
| :---: | :---: | :---: | :---: |


| Estimate and use inverse operations to check answers to a calculation | 5 | - Children display increasing confidence in column addition and subtraction, as well as multiplication facts up to $12 \times 12$ and divides. <br> - Children use column addition and subtraction to check inverse calculations of numbers up to 4-digits. <br> - Chidren use whole-part-whole methods to visulaise calculations. <br> - Children use times table number facts to work out the inverse of multiplication and division calculations. <br> - Children use inverse calculatiosn when checking their own work. <br> - Children use inverse calculations in problem solving questions. <br> INVESTIGATIONS: <br> Multi-step questions that include mistakes; making children use the inverse to identfy mistakes and solve questions correctly. |
| :---: | :---: | :---: |



|  |  | Toby and Samir are cutting pieces of ribbon. <br> My ribbon is 3 m 50 cm long. <br> My ribbon is 305 cm It is longer than Samir's ribbon. <br> long. think my ribbon is the longest. the longest. <br> INVESTIGATIONS: <br> Discuss and choose. Children to measure objects around the classroom and outside, converting each measurement. Children to discuss the most appropriate unit to measure each object. Children then order measurements. |  |
| :---: | :---: | :---: | :---: |
| Equivalent Lengths: cm and mm | 2 | - Children know the meaning of equivalent and can use this when explaining reasons verbally, as well as written. <br> - Children know cm is equivalent to 100 mm (up to 10 cm ). <br> - Children know how to convert centimetres and millimetres, <br> - When measuring, children know when to use meters and when to use centimetres or millimetres. <br> he blanks. There are $\qquad$ mm in 1 cm . <br> $a=$ $\qquad$ cm $\qquad$ mm $b=$ $\qquad$ cm $\qquad$ mm c= $\qquad$ cm $\qquad$ mm <br> d= $\qquad$ cm $\qquad$ mm | Discuss and choose appropriate measurements when measuring Stone Age artefacts and when designing Stone Age weapons. <br> Look at Neanderthals and their facial structure, hand span, foot size etc. measure and compare this with their own- discuss findings. |



| Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres | $3$ | - Children know the definition of perimeter and know that it os related to a closed 2-D shape. <br> - Children know to add all the lengths of each side of the shape to work out the perimetr. <br> - Children know and recognise equivalent lengths in squares and rectangles and can verbally justify their reasonings. <br> - Children can work out misisng lengths and then work out the perimter. <br> - Children know to include the units of measurement when writing the answer. <br> - Children can work out the perimeter of irregaulr shapes. <br> INVESTIGATIONS: | Work out the perimeter of Stonehenge and of Stone Age camps. |
| :---: | :---: | :---: | :---: |

