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| KEY STAGE 2 | | KEY STAGE 3 | |
| Year 4 | Year 5 | Year 6 | Year 7 |
| **Place Value**  Numbers beyond 1,000  Knowledge of negative numbers  Round to 10, 100, 1000  Order and compare -use the symbols  =, <, >, | **Place value**  Numbers to 1 million  1,000,000  Counting forwards and backwards with negative numbers and interpret  Round to the nearest: 100,000, 10,000, 1,000 100, 10  Order and compare- use the symbols  =, <, >, | **Place Value**  Numbers to 10,000,000  Calculate with negative numbers  Rounding with the addition of , to the nearest million  Order and compare- use the symbols  =, <, >, | **Place value**  Fluency between integers, fractions, decimals and percentages of any size  Order positive, negative integers, decimals and fractions  Rounding numbers to decimal places and significant figures  Order and compare the symbols =, ≠, <, >, ≤, ≥ |
| **Addition and subtraction**  To add and subtract numbers up to 4 digits | **Addition and subtraction**  To add and subtract numbers with more than 4 digits | **Addition and subtraction**  To add and subtract any numbers up to the nearest 10 million      Application- missing numbers | Addition and subtraction  Application of methods applied to all forms of integers, decimals and fractions.  Understand the relationship and grow in fluidity |
| **Multiplication**  All Times tables up to 12 x 12- TESTING  Find factors of a number  Short multiplication: Multiply 3 x 1 digit numbers – formal column method | **Multiplication**  Identify and find multiples and factors.  Know prime numbers- if a number is prime up to 100 and recall prime numbers up to 20.  Know a composite number is a non prime number  Recognise and use square and cubed numbers  Short multiplication: Multiply 4 x 1 digit numbers – formal column method     |  |  | | --- | --- | | Long multiplication: Start with  2 digit x 2 digit- formal method | Multiply up to 4 x 2 digit numbers- formal column method | | **Multiplication**  Multiply 4 x 2 digits- formal column method  Identify common factors and multiples and prime numbers | **Multiplication**  Application of methods applied to all forms of integers, decimals and fractions.  Understand the relationship and grow in fluidity |
| **Division**  Make the link between division and multiplication facts up to 12 x 12  e.g.  64 ÷ 8 = 8  From the link 8 x 8 = 64  600 ÷ 3 = 200  From the link 2 x 3 =6  Non formal methods of division | **Division**  Divide numbers up to 4 digits by 1 digit number- short division ( Bus stop) and show remainders    X and divide whole numbers and decimals by 10, 100, 1000 | **Division**  Divide numbers up to 4 digits by 2 digits- short division ( bus stop) | **Division**  Application of methods applied to all forms of integers, decimals and fractions.  Understand the relationship and grow in fluidity |
| **Problem solving**  Single step  Written and mentally | **Problem solving**  Multi step  Written and mentally | **Problem solving**  Written and mentally  **Order of operations: BIDMAS/BODMAS**  Using all four operations | **Problem solving**  Written and mentally  Problem solving in any context  **Order of operations: BIDMAS/BODMAS**  Use conventional notation for the priority of the order of operations, brackets, powers and roots |