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| KEY STAGE 2 | KEY STAGE 3 |
| Year 4 | Year 5 | Year 6 | Year 7 |
| **Place Value**Numbers beyond 1,000Knowledge of negative numbersRound to 10, 100, 1000Order and compare -use the symbols =, <, >,  | **Place value**Numbers to 1 million1,000,000Counting forwards and backwards with negative numbers and interpretRound to the nearest: 100,000, 10,000, 1,000 100, 10Order and compare- use the symbols =, <, >,  | **Place Value**Numbers to 10,000,000Calculate with negative numbersRounding with the addition of , to the nearest millionOrder and compare- use the symbols =, <, >,  | **Place value**Fluency between integers, fractions, decimals and percentages of any sizeOrder positive, negative integers, decimals and fractionsRounding numbers to decimal places and significant figuresOrder 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 millionApplication- missing numbers | Addition and subtractionApplication 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- TESTINGFind factors of a numberShort 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 numberRecognise and use square and cubed numbersShort multiplication: Multiply 4 x 1 digit numbers – formal column method

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| 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 methodIdentify 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 12e.g. 64 ÷ 8 = 8 From the link 8 x 8 = 64600 ÷ 3 = 200From the link 2 x 3 =6Non formal methods of division | **Division**Divide numbers up to 4 digits by 1 digit number- short division ( Bus stop) and show remaindersX 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 stepWritten and mentally | **Problem solving**Multi stepWritten and mentally | **Problem solving**Written and mentally**Order of operations: BIDMAS/BODMAS**Using all four operations | **Problem solving**Written and mentallyProblem solving in any context**Order of operations: BIDMAS/BODMAS**Use conventional notation for the priority of the order of operations, brackets, powers and roots |