

**River View Primary School**

**Mathematics**

**Year 5**

**Autumn**

**What will I know by the end of the unit?**

**Place Value**

Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. Read and write numbers to at least 1,000,000 and determine the value of each digit. Read Roman numerals to 1,000 and recognise years written in Roman numerals. Order and compare numbers to at least 1,000,000. Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000. Solve number and practical problems that involve all of the above.

**Addition and Subtraction**

Add and subtract whole numbers with more than 4-digits, including formal written methods. Add and subtract numbers mentally with increasingly large numbers. Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why.

**Multiplication and Division**

Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers. Know and use the vocabulary of prime numbers, prime factors and composite numbers. Establish whether a number up to 100 is prime and recall primes up to 19. Recognise and use square numbers and cube numbers and the notation for squared and cubed. Multiply and divide whole numbers by 10, 100 and 1000. Solve problems involving multiplication and division including using the knowledge of factors and multiples, squares and cubes.

**Fractions**

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements  $>1$  as a mixed number. Compare and order fractions whose denominators are multiples of the same number. Add and subtract fractions with the same denominator and denominators that are multiples of the same number.

**Technical Vocabulary**

<b>integer</b>	a negative or positive whole number
<b>rounding</b>	an approximation used to express a number in a more convenient way
<b>sum</b>	the result when two or more numbers are added together
<b>addend</b>	a number which is added to another
<b>difference</b>	the result of subtracting one number from another
<b>minuend</b>	a quantity or number from which another is to be subtracted
<b>subtrahend</b>	a quantity or number to be subtracted from another
<b>factor</b>	a number which will divide exactly into another number
<b>multiple</b>	the product of a given number multiplied by another number
<b>product</b>	the result when two or more numbers are multiplied
<b>square number</b>	the product of a number multiplied by itself
<b>cube number</b>	the product of a number multiplied by itself twice
<b>composite number</b>	a number with more than two factors
<b>prime number</b>	a number with only two factors, 1 and itself
<b>equation</b>	a statement of equality between two expressions
<b>numerator</b>	the number above the line in a fraction
<b>denominator</b>	the number below the line in a fraction
<b>improper fraction</b>	a fraction whose numerator is equal to or larger than its denominator
<b>mixed number</b>	formed by combining a whole number and a fraction