



## **YEAR 5 Medium Term Plan 2022-2023**

Objectives highlighted in yellow are 'Ready to Progress criteria'

### **Autumn**

#### **Place Value**

- Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals
- Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit
- Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000
- Solve number problems and practical problems involving the above reading, writing, ordering and comparing numbers to at least 1,000,000 and determine the value of each digit
- Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000

#### **Addition and Subtraction**

- Add and subtract numbers mentally with increasingly large numbers
- Add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction)
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000
- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

#### **Multiplication and Division A**

- Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
- Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes
- Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
- Establish whether a number up to 100 is prime and recall prime numbers up to 19
- Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)
- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000
- Multiply and divide numbers mentally, drawing upon known facts
- **SNF-1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice.**
- **SNF-2 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth).**

**5MD-1** Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size.

**5MD-2** Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors.

**Fractions A**

- 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 all multiples of the same number
- Add and subtract fractions with the same denominator, and denominators that are multiples of the same number