

# Maths

## Autumn 1 and 2

### Year 5

#### **Unit 1. Place value within 100,000** (8 Lessons)

##### **Number** - number and place value

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

round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000

solve number problems and practical problems that involve all of the above

read Roman numerals to 1000 (M) and recognise years written in Roman numerals

---

#### **Unit 2. Place value within 1,000,000** (8 Lessons)

##### **Number** - number and place value

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

interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero

round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000

solve number problems and practical problems that involve all of the above

---

#### **Unit 3. Addition and subtraction** (10 Lessons)

##### **Number** - addition and subtraction

estimate and use inverse operations to check answers to a calculation

# Maths

## Autumn 1 and 2

### Year 5

add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)

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 contexts, deciding which operations and methods to use and why

---

#### **Unit 4. Graphs and tables** (5 Lessons)

##### **Statistics**

solve comparison, sum and difference problems using information presented in a line graph

complete, read and interpret information in tables, including timetables

---

#### **Unit 5. Multiplication and division (1)** (10 Lessons)

##### **Number** - 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 (non-prime) numbers

establish whether a number up to 100 is prime and recall prime numbers up to 19

multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

recognise and use square numbers and cube numbers, and the notation for squared (<sup>2</sup>) and cubed (<sup>3</sup>)

solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes

solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

---

**Maths**  
**Autumn 1 and 2**  
**Year 5**

**Unit 6. Measure - area and perimeter** (7 Lessons)

**Measurement**

measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm<sup>2</sup>) and square metres (m<sup>2</sup>) and estimate the area of irregular shapes