

Year 5 End of Unit Milestones: Autumn Term

Number and Place Value: Numbers to 1 000 000

By the end of this unit, children will be able to:

- read and represent numbers to 100 000
- read and represent numbers to 1 000 000
- read and represent numbers to 1 000 000 using number discs
- compare numbers to 1 000 000 using place value
- compare numbers to 1 000 000 using pictorial representations and proportionality
- compare numbers to 1 000 000 from pictorial representations, using lists and number lines
- make and identify patterns in numbers using knowledge of place value
- make number patterns that decrease in multiples of 10 000 or 100 000
- round numbers to the nearest 10 000, 100,000 using number lines and bar graphs
- round numbers to the nearest 100, 1000, 10 000 and 100 000 using number lines.

Calculations: Addition and Subtraction

By the end of this unit, children will be able to:

- add using the 'counting on' strategy with concrete materials and number lines
- subtract using the 'counting backwards' strategy with concrete materials
- add numbers within 1 000 000 using rounding and concrete materials
- use addition and subtraction to solve comparison problems with numbers to 1 000 000
- add numbers within 1 000 000 using the column method of addition
- subtract using the column method, number bonds and number discs using numbers to 1 000 000
- add and subtract using number bonds as a key strategy using numbers within 1 000 000
- consolidate and refine addition skills and place-value knowledge to solve addition problems
- subtract numbers to 1 000 000 using concrete materials, the column method and number bonds
- consolidate and refine subtraction skills and place-value knowledge to solve subtraction problems.

Calculations: Multiplication and Division

By the end of this unit, children will be able to:

- consolidate and review multiplication; to find the result of multiplying by a number
- consolidate and review multiplication; to find the numbers we can multiply by to get a number
- define and find common factors of numbers to 100
- identify and name the prime numbers; to recognise prime numbers as numbers that only have 2 factors
- define and determine prime numbers to 100
- create and determine square and cubed numbers

- multiply 1- and 2-digit numbers by 10, 100 and 1000
- multiply 2- and 3-digit numbers by a 1-digit number using multiple strategies
- multiply 4-digit numbers by 1-digit numbers with regrouping, using a variety of strategies
- multiply a 4-digit number by a 1-digit number, with regrouping from the ones, tens and hundreds, using multiple methods
- multiply 2-digit numbers by 2-digit numbers using multiple methods
- multiply a 2-digit number by a 2-digit number using multiple methods, including the grid method, number bonds and column method, with regrouping
- multiply a 3-digit number by a 2-digit number, with the grid method and column method as key strategies
- multiply a 3-digit number by a 2-digit number with regrouping, using the column method as the key strategy
- find thousands, hundreds and tens in a 4-digit number using concrete materials
- divide 3- and 4-digit numbers by 1-digit numbers, using number bonds and long division as the key methods
- divide 4-digit numbers by 1-digit numbers, using number bonds and long division as the key methods.

Statistics: Graphs

By the end of this unit, children will be able to:

- read the information presented in a table and interpret its meaning
- read and respond to information presented in a table
- read and respond to tables that have a variety of data sets
- read and interpret information provided in a line graph where a single line represents the data and where the data is represented by more than one line
- read and interpret information presented in a table and turn it into a line graph; to determine relationships between data sets.