

Topic Description –Term1
Sequences
Use a rule to find the next term of a sequence
Use and find a term - to-term rule of a sequence
Use and find a rule for the nth term of a sequence
Use algebra to describe visual patterns
Factors and multiples
Use factors and multiples to find the HCF and LCM of numbers
Write a whole number as the product of its prime factors
Use tests of divisibility to find factors and to test for prime numbers.
Use prime factors to find the HCF and LCM of two numbers.
Application of HCF and LCM (Solve simple problems involving (HCF and LCM)
Angles
Recap of angle facts (about a point, on a straight line and in triangles)
Know facts about angles on parallel and intersecting lines
Know facts about angle in triangles and quadrilaterals
Understand and use the formula for the sum of interior angles of a regular polygon
Measuring the bearing of one point from another
Calculating angles with bearings
Ratio and Proportion (Multiplicative thinking)
Use fractions to describe proportion
Solve problems involving direct proportion by using the unitary method
Understand and use ratio notation including reduction to simplest form
Divide a quantity into a given ratio
use ratio for interpreting maps or diagrams drawn to scale
Know how to use ratios and proportions in problems
Expressions and Formulae
collect like terms and expand brackets
Use and derive a formula
Substitute positive integers into a range of expressions

Topic Description – Term2
Area and Perimeter
To find the perimeter of 2D (including compound shapes)
Find area rectangle and triangle (including compound shapes)
Find area of parallelogram
Find area of trapezium
Use and convert between metric and imperial units of measure
Negative Numbers
Recap of negative numbers
Learn and use the rules of using negative numbers with the four operations (Addition, subtraction, multiplication and division)
Use negative numbers in practical problems (including substitute negative integers into a range of expressions)
Transformations and Symmetry
Draw and describe reflections, rotations and translations
Draw and describe enlargements that use positive integer scale factors.
Recognise and describe reflectional symmetry and rotational symmetry
Fractions
Use fractions notation and simplify fractions
Find equivalent fractions
Order fractions
Convert between mixed numbers and improper fractions
Find fractions of whole amounts
Add and subtract fractions with (same and different denominators)
Multiply and divide fractions (including mixed numbers)

Topic Description- Term3

Equations

Solve linear equation with unknown on one side

Solve linear equation with unknown on both sides

Write equations to describe different situations and then solve them

Percentages: This topic is Non Calculator.

Find percentages of amounts (10%,5%, 17.5%, etc...)

Write amount as percentages(Be aware of which number to consider as 100 percent)

Find the outcome of a percentage increase or decrease

Problems solving involving percentages (Solving simple problem involving reverse percentages, and working with percentages greater than 100%)

Statistics

Recognise and describe different kinds of data

Find the mean, median, mode and range of data set

Construct bar charts and pie charts

Collect data in a frequency table

Compare set of data

Whole Numbers and Decimal Calculations

Round whole numbers and decimals

Do calculations in the correct order(BIDMAS)

Multiply decimal numbers using the standard method.

Use a calculator for a range of calculations

Divide decimal numbers using written methods including short division

Interpret the calculator display after doing a division

Probability

Describe probability using words, fractions, decimals and percentages

Find probability of events which are equally likely to happen.

Know what ' mutually exclusive' events are.

Find the experimental probability of an event

Compare results using theoretical and experimental probabilities

Understand and use Venn diagrams to find probabilities