

Topic Description – Term1
<b>Constructions and Pythagoras</b>
Understand and use Pythagoras's theorem
Use Pythagoras theorem to solve problems involving right-angled
Construct triangle1(ASA, SAS)
Constructing triangle2(SSS, RHS)
<b>Sequences</b>
Describe a linear sequence using a term to term rule
Find a position to term(nth) rule for a linear sequence
Use sequences to solve problems in practical situations
Generate sequences using a recursive formula
<b>Multiplicative thinking(Ratio and Proportions)</b>
understand and use ratio notation including reduction to simplest form
Calculating with ratios, including dividing quantities in given ratio
solve problems involving ratio
Solving problems using direct proportion
Solving problems involving proportional reasoning, including financial problems

Topic Description – Term2
<b>Measures, Perimeter and Area</b>
Convert between metric units and imperial units
Calculate the area and perimeter of 2D shapes
Calculate the circumference and area of a circle
Calculate and solve problems involving area of 2D shape including area of circle
Calculate surface area and volume of prisms
<b>Expression, Formulae and Equations</b>
Factorise expressions by taking common factors
Expand and simplify expressions
Solving multi - step equations(including brackets and fractions)
Solving equations with unknowns on both sides(including form equations from word problem)
Substitute values in formulae to find unknown variables
<b>Fractions , decimals and percentages (We are Not doing recurring decimals and reciprocals)</b>
Add and subtract fractions (same/different denominator).
Multiplication and division of fractions
Solve problems involving fractions
Calculate percentage change
solve problems involving percentages

Topic Description – Term3
<b>Graphs</b>
Use a table of values to draw a straight-line graph.
Recognise the equations of simple straight-line graphs
Relate gradient and y-intercept to the general $y=mx+c$
Draw and interpret real-life graphs and distance time graphs
<b>Decimals Calculations - Rounding and Estimation</b>
Consolidate mental and written strategies for addition and subtractions of decimals
Consolidate mental and written strategies for addition and subtractions of multiplication and division of decimals
Know and use the correct order of operations
Use the functions keys on a calculator and interpret the calculator display
Round numbers to decimal places and significant figures
Use rounding to make estimates
<b>Probability</b>
Generate sample spaces for events and use these to calculate probabilities
Understand that the probabilities of all possible outcomes sum to 1
Analyse the frequency of outcomes of simple probability experiments
Enumerate sets using Venn diagrams