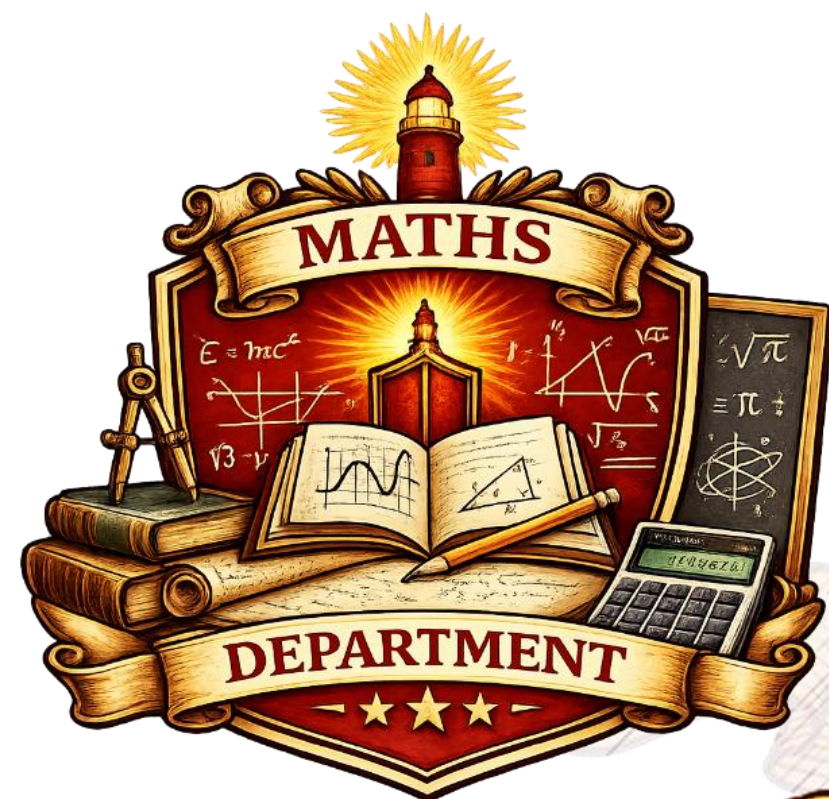




KS3: YEAR 9



Graphs

Using $y = mx + c$, Find $y = mx + c$ from point(s) on graph, Plotting quadratic graphs from a table, Solving quadratics using the graph

Transformations

Enlargement, Reflection, Translation, Rotation

Pythagoras Theorem

Applying Pythagoras, Applying Pythagoras in real, Distance between two points on a grid, **3D Pythagoras**

Trigonometry

Trigonometric Ratios, Missing Sides, Missing Angles, **3D trigonometry**

SUMMER
3:2

Standard Form

Change from ordinary numbers to standard form and vice versa, Standard Form Calculations

Equations:

Review solving equations, Solving simultaneous equations graphically, **Solving Simultaneous equations algebraically**

Data representation

Quartiles, Box Plots, Cumulative frequency

SUMMER
3:1

Compound Measures

Distance-Time graphs, Speed, Density, Pressure, Rates of Pay

Equations

Solve 1 and 2-step equations, Variables on both sides, Form equations: shape

Inequalities

Represent inequalities, Writing inequalities, Listing integers, Solving inequalities

Ratio Proportion

Sharing in ratio, Combined ratio, Work rate, Best buys

SPRING
2:2

Percentages

Recap percentages, Repeated percentage change, Reverse percentages, Compound/ Simple interest comparison

Averages

Averages from a table, Averages from grouped data, **Quartiles**

SPRING
2:1

Sequences

Generate a sequence, Find the n^{th} term, Fibonacci sequences, Determine whether a value is in a given sequence, Geometric Sequences, **Quadratic Sequences**

Decimals & Fractions

Decimal operations, Fraction operations, Conversions, Worded problems, **Recurring decimals to fractions**

Angles & Shapes

Basic angle rules, Angles in parallel lines, Bearings, Interior and Exterior angles

Algebraic Manipulation

Collect like terms, Expand and factorise single bracket, Expand a pair of brackets, Expand triple brackets, **Factorising quadratics**

AUTUMN
1:2

Number and Indices

BIDMAS, Product of prime factors, HCF, LCM, Rules of Indices, Negative Indices, **Fractional Indices**

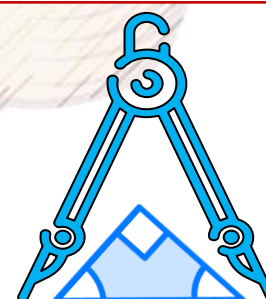
Area and Volume

Area and perimeter recap, Circles recap, Arc Length/Sectors, Volume of Prisms, Surface Area

Charts and Diagrams

Pie Charts, Scatter graphs, Frequency Polygons, Stem & leaf

AUTUMN
1:1



Key

Topics in red are covered by sets 1-2 only