Maths Learning Journey
Foundation
Year 9 - 11

11

- **Multiples and factors**: HCF, LCM
- **Algebraic manipulation**: Worded problems, PPF, Venn, Substitution
- **Solving equations**: Factorising, Simplifying, One/two step
- **Indices and standard form**: Brackets, Forming, Variables on both sides, powers, BIDMAS
- **Area, perimeter and right angled triangles**: Roots, 2D shapes circles, Compound shapes, Pythagoras, Trig
- **Revision**
- **FINAL EXAM**
- **Averages**: Mean, Range, Median, Mode, Freq/grouped freq
- **Probability**: Sample Space Venn, Scale, Theoretical/experimental
- **Compound measures**: Conversion
- **Straight line graphs**: Midpoint of a line, y=mx + c, Gradient
- **Drawing graphs**: Coordinates, %linear and quadratic, Real life, Linear and quadratic, Equation of a line
- **Transformations**: Rotation, Enlargement, Translation Vector, Reflection
- **Angles and bearings**: Sum of interior, Facts
- **Volume and SA**: Volume, Prisms, 2D shapes, SA

10

- **Rounding and error intervals**: Estimating, Integers And powers of 10, Decimal places, Significant figures
- **Percentage**: Calculating %, Inc/dec, Change, Reverse
- **Ratio and proportion**: Simplify, 1:n, Sharing, Best buys
- **Perimeter and area**: 2D shapes, Compound shapes, Circles
- **Construction, loci and bearings**: Angle bisector, Triangles, Perpendicular lines
- **Proportion**: Best buys, Inverse proportion, Recipes
- **Percentages**: % inc/des, % change
- **Sequences**: Term to term rules, Nth term, Fibonacci
- **Solving equations**: Diagrams, One/two step, Variables on both sides
- **3D shapes**: brackets, Nets, Shapes, Volume and SA
- **2D shapes**: Plans and elevations, Properties of quadrilaterals/ triangles, Angle facts, Area
- **Coordinates and graphs**: Linear graphs, Coordinates, Gradients

9

- **Arithmetic**: Negative numbers, Worded problems, Decimals, 10^2
- **Powers and roots**: Powers and roots, Index laws, BIDMAS
- **Fractions, decimals and percentages**: Comparing fractions, decimals %
- **Algebraic manipulation**: Simplifying expressions, Expanding brackets, Factorising, Substitution

Cross-Curricular Links

Science
IT
Business
DT

Haute Vallée School
Achieve . Believe . Care