COLNE VALLEY HIGH SCHOOL

NUMBER – GEOMETRY & MEASURE – ALGEBRA – STATISTICS – PROBABILITY – RATIO & PROPORTION

Where we are right now

	AUTUMN	SPRING	SUMMER

Year 7

Unit 1	Unit 2	Unit 3	Multiplication and division	FDP	Fractions & Percentages of amounts	Addition and subtraction of amounts	Constructing and measuring	Developing geometric reasoning	Equations	Number sense	Sets & probability	Sequences	Assessment
• Baseline • Code breaking • Place value • Number grid inv. • Calculations	Order of operations Introduction to Algebra Substitution Directed numbers Measures and scales	Number proprties Properties of shape Coordinates Brackets Christmaths	• Multiplying by powers of 10 • Standard form • Converting Units • Area & Perimeter of 2D shapes • Mean, mode, median	Tenths& hundredths Fractions and diagrams Converting FDP Simple FPD conversion Pie charts	Fractions of an amount Finding percentage of amount Mental methods Calculator methods Problem solving	Representations of fractions Equivalent and improper Adding and subtracting Add/subtract mixed numbers	Labelling, drawing shapes Classifying/measuring angles • Interpret pie charts Constructing triangles	• Angles at a point • Angles on a straight lines • Angle sin a triangle • Angles in a quadrilateral • Interior/exterior angles polygons	Fact families one step equations two step equations Forming expressions Forming equations	Mental strategies Estimation Strategy selection Using known facts	Probability scale Single events Sample space Venn diagrams Frequency trees Notation with sets	Describing and continuing sequences Sequences in a graph or table Continuing a linear sequence Continuing a non linear sequence Term to term rule	Fortnightly end of unit assessments Fortnightly exit ticket feedback Termly assessments

Year 8

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Assessment
• Percentages • Money and finance • Algebraic manip. • 3D shapes • Index Laws & Surds	Sequences Ratio and Proportion Averages and Measures of pread Perimeter and Area Standard form	Set notation & Venn Rounding and estimation Volume & Surface area Solving equations Triangle properties	• Straight line graphs • Transformations • Statistical Graphs • Inequalities • Speed, diatnce and time	Bounds and error intervals Non Linear graphs Constructions and Loci Expanding brackets	• Motion-Time graphs • Angles & Bearings • Probability • Two way tables and Frequency trees	Angles in polygons Simultaneous equations Fractions, Decimals & Percentages Vectors	Angles in parallel lines Fraction Arithmetic Solving quadratics Similarity and congruence	Initial diagnostic assessment at the start of each unit Fortnightly exit ticket feedback Termly assessments

Year 9

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Assessment
• FDP • Rounding and Estimation • Perimter and Area • Algebraic manipulation • Ratio and proportion	Fraction Arithmetic Averages/measures of speed Number properties Expanding brackets Factorising	Sequences Straight Line Graphs Index Laws & Surds Measures, scales & conv. Percentages	• Statistical graphs • Money and finance • Solving equatiosn • Forming and solving including proof • Speed, distance and time	Bounds and error intervals Non-Linear & Real life graphs Averages and statistical graphs Volume and Surface Area Inequalities	Revision & Exam	Triangle properties Standard Form Functions Angles in parallel lines Angles in polygons	Probability & Tree Diagrams Two way tables and frequency tree Vectors Quadratics	Initial diagnostic assessment at the start of each unit Fortnightly exit ticket feedback Termly assessments

Year 10

Unit 1	Unit 2	Unit 3	Vectors	Congruency, Similarity and enlargement	Angles, Bearings & Measure	Data	Data	Non calculator methods	Types fof number sequences	Indices and roots	Manipulating expressions	Assessment
• Percentages • Circles • Algebraic manipulation • Simultaneous equations • Pythagoras and trigonometry	Constructions & Loci Probability and tree diag. Averages and Measure Volume & Surface area Straight line graphs	Non Linear graphs Set notation and Venn diagrams Compound measures Solving equations Ratio & Proportion	• Drawing and describing vectors • Operations with vectors • Journeys in shapes • Understanding parallel lines • Exploring co-linear points • Geometric arguments & proofs	Enlarging shapes + SF Enlarging shapes by - SF Angles in parallel lines Similar shapes Area/Volume of similar shapes Congruent triangles & proof	Compass and bearings Drawing and measuring bearings Scale drawings with bearings Calculating bearings using angle rules Solve bearing problems using trig Use Sine and Cosine rule with bearings	Construct a stratified sample Construct and interpret frequency tables and frequency polygons Construct and interpret pie charts Capture/recapture method	• Construct histograms • Interpret histograms • Averages from tables • Time series graphs • Stem and leaf diagrams • Cumulative frequency • Box plots • Scatter graphs	Decimal multiplication and div. Exact answers, rational and irrational Surds Limits of accuracy Upper and lower bounds Multi-step problems	Continue arith/geo sequences Explore other sequences Sequences involving surds Nth term of linear sequence Nth term of quadratic sequence Nth term of complex quadratic sequences	Higher powers and roots Power zero and neg indices Powers of powers Fractional indices Calculate with numbers in standard form	+ & - algebraic fractions + & - complete alg fractions x & divide alg fractions Form and solve equations & inequalities with fractions Solve equations with alg. fractions Algebraic arguements	Fortnightly end of unit assessments Fortnightly exit ticket feedback Termly assessments

Year 11

Unit 1		Unit 2	Unit 3	Revision using QLA	Revision using QLA	Exams	Assessment
• FDP • Standard form • Surds • Rounding & Bounds • Types of number • Money	Angles properties Angles in parallel lines Angles in polygons Bearings Perimeter Volume Pythagoras & Trig	Solving equations Sequences Indices Graphs Simultaneous equations Expand/factorise/solve Averages Range IQR,LQ,UQ Grouped data/statistical graphs	• Simplifying • Sharing • rcl 1n • Direct proportion • Inverse proportion • Recipes • Ratio problem solving • Ratio and fraction problem solving				Past papers are sat in lesson every fortnight 3 sets of mock exams
* Fortnightly past papers in class			*Fortnightly past papers in class				