



KS3 MATHS OVERVIEW

YEAR 7		YEAR 8	
Y7 Unit 1	- Reading & writing numbers - Place value - Multiplying & dividing by powers of 10 - Comparing & ordering integers - Rounding to powers of 10 - Integer 4 operations - Negative numbers - BIDMAS - Using a calculator	Y8 Unit 1	- Comparing & ordering decimals - Decimals 4 operations - Rounding to decimal places & significant figures - Estimation - Converting recurring decimals to fractions
NUMBER & CALCULATION		DECIMALS & ROUNDING	
Y7 Unit 2	- Squares, cubes & roots - Further powers & roots - Index laws - Zero, negative & fractional indices	Y8 Unit 2	- Drawing & writing fractions - Equivalent fractions - Simplifying fractions - Mixed number – Improper fraction conversion - Comparing & ordering fractions - Fractions 4 operations - Fraction of an amount
POWERS, ROOTS & INDEX LAWS		FRACTIONS	
Y7 Unit 3	- Factors & multiples - Prime numbers - HCF & LCM - Prime factor decomposition	Y8 Unit 3	- Fraction / decimal / percentage conversion & ordering - Percentage of an amount - Increase/decrease an amount by a percentage - Decimal multipliers - Compound interest & depreciation - Percentage change
FACTORS, MULTIPLES & PRIMES		PERCENTAGES & FDP CONVERSION	
Y7 Unit 4	- Collecting like terms - Substitution - Expanding a single bracket - Factorising - Deriving algebraic expressions	Y8 Unit 4	- Special sequences - Term-to-term rule - Linear sequences - Finding the nth term - Determining whether a number is a term in a sequence - Pattern sequences
ALGEBRAIC CONVENTION		SEQUENCES	
Y7 Unit 5	- Expressions, equations, identities & formulas - Solving linear equations	Y8 Unit 5	- Coordinates - Midpoint of a line segment - Naming horizontal, vertical & diagonal lines - Plotting straight line graphs - Gradient - Equation of a line - Parallel & perpendicular lines
SOLVING EQUATIONS		INTRO TO GRAPHS	
Y7 Unit 6	- Sensible units - Reading scales - Metric unit conversions - Reading time & conversion to and from 24-hour clock - Time unit conversion & Time elapse	Y8 Unit 6	- Writing & simplifying ratios - Equivalent ratio problem solving - Sharing a quantity in a ratio - Unitary method & best value - Recipe ingredient proportion
MEASURES & UNIT CONVERSION		RATIO & PROPORTION	
Y7 Unit 7	2D shape names & notation - Line (reflective) symmetry - Rotational symmetry - Quadrilateral properties - Congruence & tessellation	Y8 Unit 7	3D shape names & sketches - Nets 3D shape properties - Plans & elevations
2D SHAPE		3D SHAPE	
Y7 Unit 8	- Perimeter of 2D shapes - Area of rectangle, triangle, parallelogram & trapezium - Perimeter & area of compound shapes	Y8 Unit 8	- Surface area of a cuboid - Surface area of a triangular prism - Volume of a cuboid - Volume of a prism
AREA & PERIMETER		SURFACE AREA & VOLUME	
Y7 Unit 9	- Types of angles - Estimating, measuring & drawing angles - Angle facts - Angles in parallel lines	Y8 Unit 9	- Pictograms - Stem & leaf diagrams - Bar graphs - Time-series / line graphs - Pie charts - Scatter graphs
ANGLES		DISPLAYING DATA	
Y7 Unit 10	- Types of data - Tally charts - Frequency tables - Frequency trees - Two-way tables	Y8 Unit 10	- Averages & range from a discrete data set and ungrouped / grouped frequency tables - Averages advantages & disadvantages
COLLECTING & ORGANISING DATA		ANALYSING DATA	