YEAR 8 – MATHS

Term 1

Percentages	Money	Indices	Equations	Sequences
• To find a percentage of an amount using both calculator and non-calculator methods • To increase and decrease by a percentage	• To use proportion to find the best value for money	• To calculate with positive indices • To simplify expressions with positive indices	• To solve equations with brackets • To solve equations with fractions where the variable is on the numerator	• To find the n^{th} term of a linear sequence • To find a term in a sequence through substitution

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Term 2

Ratio	Rounding	Area & Circles	3D Shapes	Surface Area & Volume
• To simplify ratio • To split a given amount in a ratio • To understand and use simple map scales	• To round to significant figures • To round to decimal places • To estimating by using 1 significant figure	• To be able to find the area of rectangles, triangles and parallelograms • To find the area of a circle • To find the circumference of a circle	• To be able to label key 3D shapes • To be able to label the parts of 3D shapes • To sketch the net of a cube and cuboid	• To be able to calculate the surface area of a cuboid • To find the volume of cubes and cuboids • To find the volume of prisms • To convert units of volume

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Term 3

Angles	Linear Graphs	Statistical Diagrams	Inequalities	Brackets	Algebraic Fractions
• To use the basic angles rules (on a straight line, vertically opposite, around a point, in a quadrilateral and in a triangle) • To distinguish between corresponding angles and alternate angles • To find the sum of the interior angles	• To plot and use vertical and horizontal lines • To plot linear graphs • To use and understand y = mx + c • To find the equation of a line from a graph	• To draw an interpret pie charts • To draw line graphs • To draw and interpret stem-and-leaf diagrams	• To use the inequality symbols correctly • To choose numbers that satisfy an inequality • To draw an inequality on a number line	• To expand and simplify single brackets • To expand and simplify double brackets	• To factorise a linear expression • To factorise quadratic expressions into two brackets • Simplifying algebraic fractions