

YEAR 8	KS3 Maths Progress		Theta 2 and Theta 3
TERM	UNIT / LESSON	LESSON	LEARNING INTENTIONS
AUTUMN	1 Number	12	
Theta 2	1.1 Calculations	Lesson 1 and 2	Use written methods to add and subtract with decimals. Calculate mentally. Calculate with money. Estimate answers to calculations.
	1.2 Calculating with negative integers	Lesson 3 and 4	Add, subtract, multiply and divide positive and negative numbers.
	1.3 Powers and roots	Lesson 5 and 6	Calculate using squares, square roots, cubes and cube roots. Use index notation for powers of numbers. Estimate the square root of a number.
	1.4 Powers, roots and brackets	Lesson 7 and 8	Use mental methods to calculate combinations of powers roots and brackets. Use a calculator to check answers. Substitute numbers into formulas involving power, roots and brackets.
Theta 3	Theta 3: 2.1 Substituting into expressions	Lesson 9 and 10	Substitute into algebraic expressions involving powers. Write expressions and formulae. Change the subject of a formula. Simplify expressions involving brackets, use rules for indices and factorise expressions. Multiply out double brackets and collect like terms.
Theta 2	1.5 Multiples and factors	Lesson 11 and 12	Use index notation. Write a number as a product of its prime factors. Use prime factor decomposition to find the HCF and LCM.
AUTUMN	2 Area and volume	11	
	2.1 Area of a triangle	Lesson 13 and 14	Derive and use the formula for the area of a triangle. Find areas of compound shapes.
	2.2 Area of a parallelogram and trapezium	Lesson 15 and 16	Calculate areas of parallelograms and trapezia.
	2.3 Volume of cubes and cuboids	Lesson 17 and 18	Calculate the volume of cubes and cuboids.
	2.4 3D shapes	Lesson 19 and 20	Sketch nets of 3D solids.
	2.5 Surface area of cubes and cuboids	Lesson 21 and 22	Calculate the surface area of cubes and cuboids.
	2.6 Problems and measures	Lesson 23	Calculate the volume of cubes and cuboids. Calculate the surface area of cubes and cuboids.
HALF-TERM TEST			