

Maths Key Performance Indicators – Mercury Class

	Strand	Sub-strand	Progression statement	
Number	Number and place value	Count	Calculate intervals across zero	
		Represent numbs	Use negative numbers in context	
		Round numbers	Round whole numbers to 10 000 000 to a required degree of accuracy	
	Calculation	Understand calc	Use knowledge of the order of operations	
		Calculate mentally	Identify common factors, common multiples and prime numbers greater than 100	
			Consolidate multiplying and dividing whole numbers and decimals by 10, 100 & 1000	
		Solve calculation problems	Solve multi-step addition and subtraction problems in less familiar contexts, deciding which operations and methods to use and why	
			Consolidate solving calculation problems involving scaling by simple fractions and simple rates	
		Use written calculation	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication	
			Divide numbers up to 4 digits by a two-digit whole number using the formal methods of short or long division, and interpret remainders as appropriate for the context as whole numbers, fractions or by rounding	
		Check	Check answers to calculations with mixed operations and large numbers, choosing the most appropriate method, including estimation, and determining, in the context of a problem, an appropriate degree of accuracy	
		Fractions, decimals and Percentages	Convert FDP	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
			Use FDP as numbers	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
	Multiply simple pairs of proper fractions			
	Divide proper fractions by whole numbers			
	Use written division methods in cases where the answer has up to two decimal places			
	Multiply one-digit numbers with up to two decimal places by whole numbers			
	Solve FDP problems	Solve problems which require decimal answers to be rounded to specified degrees of accuracy		
	Measurement	Understand units of measure	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit and visa versa, using decimal notation to up to three decimal places.	
	Geometry	Classify shapes	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.	
Solve shape problems		Find unknown angles and lengths in triangles, quadrilaterals, and regular polygons		
Describe movement		Draw and translate simple shapes on the coordinate plane, and reflect them in the axes		
Statistics	Solve data	Solve problems using pie charts and line graphs		

	problems	Calculate and interpret the mean as an average
Ratio		Solve problems involving unequal sharing and grouping using knowledge of fractions ,multiples and percentages
	Algebra	Use simple formulae