Key Stage One Mathematics Medium Term Plan

	Autumn 1	Spring 1	Summer 1
	Place value 10 / 100. Counting to 10 Writing to 0 Counting to zero Comparing numbers of objects Ordering numbers to 10 Comparing numbers Counting to 100 Place value Comparing numbers to 100 Number bonds Number Patterns	Fractions- making equal parts 2 equal parts Making quarters Sharing ang grouping into halves and quarters Fractions-showing halves, thirds and quarters. Equal parts using simple and complex methods Identifying more than one quarter Identifying thirds Using the vocabulary numerator and denominator Naming fractions by looking at the number of pieces shaded in Making a whole Counting in halves Counting in quarters Counting in thirds using a number line and pictures Fractions-comparing and ordering Fractions Fractions-finding part of a set halves, thirds, quarters Finding as part of a given quantity	Multiplication and Division: Revisit equal grouping Revisit sharing Use the 2, 5 , 10s in context to embed
	Real Life reasoning problems with place value	Real Life reasoning problems with fractions	Real-life Problems involving x and division

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	Addition to 10 /100 Number Bonds Addition within 10 Completing number sentences Solving picture problems Adding by counting on Simple addition Addition with renaming Add 1 digit to a 2 digit number Add 10s by recognising its relationship to adding 1s. To add two 2 digit numbers where 1 number is a multiple of 10 To add with 10s and 1s where the 1s are both more than zero To add 2 digit numbers where renaming is expected. Addition 3 one digit numbers	Measurement – Time, Familiarity with analogue clock including minute and hour hand Elling time to half hour – using the term half-past Ordering events – next, before, after Estimating duration of time – seconds minutes and hours Comparing term using terms quicker, slower , earlier and later To use a calendar and know days of the week and months of the year in order Saying and writing time to 5 minutes 5 minute intervals to the hour Sequencing events using analogue clocks and pictures Drawing clock hands with a ruled line Duration of time to 5 minute intervals Finding ending times from different 5 minute starting points Finding starting times after being given end times Comparing duration of time in Hours and minutes	Measurement Reading temperature Estimating temperature
		Real-life Reasoning problems involving Time	Position and Direction also linked to OAA Use the language of position – ordinal numbers up to 10 positions Name positions in a queue Describing positions Describe movement of objects using varied language To understand how to make turn using mathematical language linked to Time
	Real-Life Reasoning problems involving addition.	Measurement - Money- Recognising coins using size, colour and marking and shape Recognising notes recognising their colour and value linked to coins. writing amounts of money to identify UK coins and notes and write names Money- counting money using notes in sequence of 5s and 10 Counting money using coins in sequence of value Showing equal amounts on money using different coins. Exchanging denominations of money for different coins	

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		Comparing amounts of money Calculating total amounts – sum of Money- getting change from an amount	
		Real-life Reasoning problems involving Money	
	Review Term 1	**Review Term 3**	**Review Term 5** **Assessment week using optional KS1 tess and review progress of Year 1**
	Autumn 2	**Spring 2**	**Summer 2**
	Subtraction within 10 and 100 Subtract by crossing out Subtract by using number bonds Subtract by counting back using a number line Making subtraction stories Solving picture problems involving subtraction Addition and subtraction – corresponding number families Simple subtraction 1s from a 2 digit number Subtract 2 digit multiples of 10 from 2 digit multiples of 10 Subtract 10s from a 2 digit number with the 1s being more than zero Subtract a 2 digit number by another 2 digit number Subtract within 100 by applying related 1 digit addition and subtraction facts To subtract a 2 digit number by a 1 digit number with renaming	Geometry : Recognising 3D shape – spheres, cubes, cuboids and pyramids Recognising 2D shapes in an everyday environment Grouping 2D shapes using different criteria Making patterns using common 2D shapes Identifying sides on basic 2D shapes Identifying vertices in regular polygons Identifying lines of symmetry in 2D shapes Making figures to construct shapes using pattern blocks that have lines of symmetry Sorting shapes based on properties Drawing shapes using square grid and dot grid paper Recognise patterns Describing patterns using ordinal numbers and shape names Moving shapes on a square grid transformation – using common language	Pictograms: To be able to read a picture graph7to read and interpret picture graphs To read and interpret picture graphs where a value of a picture represents more than one.

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	To subtract a 2 digit number by another 2 digit number where renaming has to occur.	Turning shapes using quarters, halves both clock-wise and anti-clockwise on a square grid Recognise 3D shapes Describing 3D shapes and classifying them using vertices, edges, faces Describing 3D shapes discussing faces and construct nets Grouping 3D shapes by similar properties.	
	Real-Life Reasoning problems involving subtraction.	Real-Life Reasoning problems involving shapes	Real-life reasoning problems involving pictograms
	Making equal groups first steps to x – adding equal groups in multiple ways. Making equal rows in order to begin to count equal numbers efficiently. Making doubles – understand doubling is creating an identical number to the one you started with To understand that doubling is the same as saying 2 groups of the same amount Multiplication and division of 2, 5 and 10 Y2 X as equal groups. It is the same as repeated addition To use concrete material and pictorial representations to x by 2 5x table to cover the basics and highlight as equal groups Focusing on numbers found in 10 x table Patters and relationships with 10 x table Investigate links to understand commutative law To use knowledge to further investigate commutative law	Number and Place Value: Addition and subtraction within 20. Subtract from 10 Addition and subtraction facts derived from sentences Numbers to 40: Counting to 40 writing numbers to 40 Counting in 10s and 1s Comparing numbers Finding how much more Observe and use number problems To decide when it appropriate to add or subtract when solving problems Using pictorial representation to find the difference between two amounts Show steps for multi-step problems with a strategy that is efficient	
	Real-Life Reasoning problems involving equal groups and multiplication of 2s, 5s, 10s.	Real-Life Reasoning problems involving Number and Place Value	**Review 6**

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	Division – grouping equally To understand how to divide even numbers into equal groups using concrete materials Sharing equally To understand how to divide even numbers equally into groups to determine how many objects will be included in each group Understand that grouping is a way of dividing Dividing by 2 Dividing by 5 – links to x by 5 Dividing by 10 – identify links with x by 10 X and division skills with family facts. Linking odd and even numbers to division by 2, 5 10.	Measurement: Volume, Capacity and Mass Comparing mass of objects – heavy, light, heavier than , lighter than and as heavy as vocabulary Finding mass using non-standard ones Find and compare the mass of objects using non-standard units. Measuring mass in KG Measuring Mass in grams Comparing the mass of two objects and three objects with appropriate vocabulary Comparing volume – more than less than all full and empty Finding capacity using non-standard ones Describe volume using half and a quarter Comparing volume using greater than , greatest least Comparing volume in different containers using non-standard units Measuring volume in litres – more, less or equal to a litre. Measuring volume in ml	
	Real-Life Reasoning Problems involving sharing and division	Real-life Problems involving Mass, Volume Capacity	
	Measurement Height and length To compare height and length using key terminology Measure length using other items Measure height and length using body parts Measuring height and length using a ruler Measuring length in metres and cms Comparing length in metres using greater and less than symbols Comparing length in cms Comparing lengths of lines both straight and curvy	**Review Term 4**	

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	Real-Life Reasoning Problems involving height and length -		
	Review Term 2		