St. Peter's CE Primary School.

Mathematics: Long Term Plan-Objectives. Year 1

Pupils will be learning their 2x, 5x, 10x tables throughout the year.

Year Group- 1	Autumn	Spring	Summer
Number: Number and Place Value	**Place Value** Understanding the value of numbers to 10, including 0. Order, compare and understand all numbers to 10 and work with them fluently and accurately. Lay the foundations for later work on number bonds and will begin to support pupils with a systematic recording of their work to solve problems. **Numbers to 20** Numbers up to 20 and in particular focusing on numbers between 10-20. Count and write to 20, compare and order numbers and see patterns within 20.		**Numbers to 40** Exploring numbers to 40 in a variety of ways. Counting to 40 in different ways and writing numbers to 40. Comparing numbers and looking at number patterns. Consolidating pupils' previous work with numbers to 20 and prepare them for Numbers to 100 **Numbers to 100** Reinforce some previously-taught concepts in addition to increasing the complexity of number comparisons and number patterns. Counting in 10s and 1s, followed by using number bonds to partition numbers. Compare numbers to 100 and find number patterns looking at one hundred charts.
Number: Addition and Subtraction	**Number bonds** Two numbers can be added to make a bigger number. Explore different ways to make numbers up to 10 and create stories from what they have learnt. **Addition within 10** Different ways of adding to 10. They will utilise the part-whole diagram and begin to lay the foundations of the inverse of addition. Begin to make their own addition equation in order to support the deeper understanding of the processes of addition. **Subtraction within 10** Learn that subtraction equations can be done in three ways: by crossing out, by using number bonds and by counting back. Use manipulatives and pictorial representations to support their understanding and use vocabulary appropriately.	**Addition and Subtraction within 20** Learn different ways to add and subtract numbers within 20.	**Addition and Subtraction word problems** Placing a contextual focus on previously-taught concepts in counting, addition and subtraction. It is laying the visual and proportional representation foundations required for using bar modelling as the primary strategy for solving word problems. Reinforcing and contextually using number bonds and simple bars to represent word problems. Putting into practice concepts previously taught in number comparison, specifically looking at how many more or how many fewer/less.
Number: Multiplication and Division			**Multiplication** Learn the foundations of equal groupings, repeated addition, arrays and doubling. Apply that knowledge to solve word problems. **Division** Learning about taking a limited number of items and placing a predetermined number into groups to determine how many groups there will be. Pupils will be given a number of

			items, but will need to figure out how many will go into each group by sharing equally
Number: **Fractions**			**Fractions** Learning about making halves and quarters before moving on to making the connection between fractions and division. Pupils we use their knowledge of sharing equally to create equal pieces of paper.
Measurement		**Length** The basics of length. Compare different lengths and describe whether something is taller, longer, shorter or higher. Pupils will learn about how to measure two items fairly for comparison using items and body parts before moving onto measuring using a ruler.	**Time** Introductory concepts of time. Telling time to the hour and half hour, using terms such as 'next,' 'before' and 'after,' estimating durations of time and, finally, comparing time. Exploring analogue clocks and telling time to the hour and half hour. Look at a timeline for an average day and then determine the order of events using specialised terminology. Estimate lengths of time and then compare measures of time. **Money** Recognise coins and determine their value using size, colour, markings and shape. Recognise notes and determine their value using colour and markings. **Volume and Capacity** Comparing volume and capacity, using terms such as 'more than' and 'less than'. Finding volume and capacity using non-standard units. Describing volume using the terms 'half' and 'quarter.' **Mass** Comparing mass using terms such as 'heavy/heavier,' 'light/lighter.' Finding mass using non-standard units. This idea of non-standard units follows on from the previous chapter on volume and capacity.
Geometry: **Properties of Shape**		**Shapes and Patterns** Different types of 2D shapes and some basic 3D shapes. The properties of basic 2D shapes and some solid shapes. Group shapes according to different criteria. Recognising, describing and continuing a pattern, as well as generalising patterns.	
Geometry: Position and Direction	**Position** Understand positional language, as well as directional language for left and right.		**Space** Position, movement and turns. Describe the position of one object relative to another, using terms such as: 'top,' 'middle' and 'bottom;' 'around,' 'close,' 'near' and 'far;' and 'on top of,' 'in front of' and 'above.' When looking at movement, the concepts explored are 'up and down,' 'forwards and backwards,' and 'inside and outside.' Turns: navigating whole turns, half turns, quarter turns and the notion of clockwise and anticlockwise.