SPROWSTON INFANT SCHOOL YEAR 2 MEDIUM TERM PLAN – AUTUMN 1

Year 2 Medium Term Planning Autumn 1	Autumn 1
WEEK 1 – Place Value ●Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward ● Recognise the place value of each digit in a two-digit number (tens, ones) ● Identify, represent and estimate numbers using different representations, including the number line ● Compare and order numbers from 0 up to 100; use <, > and = signs ● Read and write numbers to at least 100 in numerals and in words ●Use place value and number facts to solve problems	**Shape:-** Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line
WEEK 2 - Addition and subtraction ● Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods ● Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 ● Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a two-digit number and tens ● Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot ● Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	**Statistics:-** Interpret and construct simple pictogram Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.
WEEK 3 - Addition and subtraction with money ● Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value ● Find different combinations of coins that equal the same amounts of money ● Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	**Measurement:-** recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value
WEEK 4 - Addition totals to 20 and related number facts to 100 + Reasoning ● Solve problems with addition and subtraction ● Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 ● Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a two-digit number and ones, a two-digit number and tens ● Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	**Measurement:-** Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm)
WEEK 5 – Adding two 2-digit numbers ● Add and subtract numbers using concrete objects, pictorial representations, and mentally, including two-digit numbers ● Use place value and number facts to solve problems	**Geometry:- Position and Direction** Order and arrange combinations of mathematical objects in patterns and sequences

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WEEK 6 - Multiplication ● Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward ● Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers ● Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	**Measurement:-** Compare and order lengths, mass, volume/capacity and record the results using >, < and =
WEEK 7 – Division ● Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers ● Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	**Measurement:-** Compare and sequence intervals of time
Week 8 – Doubles and halves to 20 ● Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 ● Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a two-digit number and tens ● Add and subtract numbers using concrete objects, pictorial representations, and mentally, including two two-digit numbers ● Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems ●	**Geometry:-** Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise).
Week 9 – Fractions ● Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity ● Write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of 2/4 and 1/2	**Statistics:-** Interpret and construct simple tally charts and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data.
Week 10 –**Addition** ● Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a two-digit number and ones ● Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 ● Use place value and number facts to solve problems	**Shape:-** Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.
Week 11 – Subtraction ● Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a two-digit number and tens	**Measurement:-** compare and sequence intervals of time

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● Add and subtract numbers using concrete objects, pictorial representations, and mentally, including two two-digit numbers ● Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	
Week 12 –**Word problems** ● Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods ● numbers using concrete objects, pictorial representations, and mentally, including two two-digit numbers	**Geometry:-** Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
Week 13 – Maths Games ● ●	**Statistics:-** Ask and answer questions about totalling and comparing categorical data.
Week 14 – Assessment Week :- Arithmetic and Problem Solving and Reasoning ● ●	**Assessment:-** Shape, Space and Measure

Rationale: Begin with place value, ordering/comparing numbers as this is fundamental to understanding – build on what has been learnt in Y1. Then use place value to partition numbers and add and subtract, following this doing it with money – finding change to reinforce links between addition and subtraction, as well as place value. Then focus on addition applying number bonds and place value. Move on to multiplication, beginning with repeated addition and then on to division, which is linked to understanding of multiplication. Teach doubling and halving and follow this with fractions as the two are linked. Come back to addition and subtraction, with a separate focus on each to secure methods. Follow this up by applying it to word problems for both addition and subtraction. Finish the term with Maths games using everything they have done over the term – getting them to apply what they have learnt and choose correct strategies.