Primary Mathematics Planning Framework Manor Park First Year 4

AUTUMN 1

Focus	Weeks	Learning Objectives: Remember that they are end of year objectives. Use target cards and small steps to guide you.
Number, Place Value Focus White Rose Maths Place Value small steps. Start where the children are.	1-2	• count in multiples of 1000 • find 1000 more or less than a given number • recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) • order and compare numbers beyond 1000 • solve number and practical problems that involve all of the above and with increasingly large positive numbers.
Addition and Subtraction White Rose Small steps as guidance.	3-4	• add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate • estimate and use inverse operations to check answers to a calculation • solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Measurement (Money) White Rose Small step as guidance.	5	• estimate, compare and calculate different measures, including money in pounds and pence
Multiplication and Division White Rose Maths Place Value small steps. Start where the children are	6-7	• recall multiplication and division facts for multiplicationtables up to 12 × 12 • use place value, known and derived facts to multiplyand divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers • recognise and use factor pairs and commutativity in mental calculations • solve problems involving multiplying and adding,including using the distributive law to multiply two digit numbers by one digit, integer scaling and harder correspondence problems such as n objects are connected to m objects.

Primary Mathematics Planning Framework Manor Park First Year 4

AUTUMN 2

Focus	Weeks	Learning Objectives: Remember that they are end of year objectives. Use target cards and small steps to guide you.
Number, Place Value focus White Rose Maths small steps. Continue from last time.	8-9	• recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) • identify, represent and estimate numbers using different representations • round any number to the nearest 10, 100 or 1000 • read Roman numerals to 100 (I to C) and know that, over time, the numeral system changed to include the concept of zero and place value.
Multiplication and Division White Rose Maths Place Value.. continue from last time…..	10-11	• recall multiplication and division facts for multiplication tables up to 12 × 12 • use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers • recognise and use factor pairs and commutativity in mental calculations • solve problems involving multiplying and adding,including using the distributive law to multiply two digit numbers by one digit, integer scaling and harder correspondence problems such as n objects are connected to m objects. • multiply two-digit and three-digit numbers by a one-digit number using formal written layout
Fractions (including decimals) White Rose Maths small steps as guidance – start – but might not get to decimals yet	12-13	• count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten • recognise and show, using diagrams, families of common equivalent fractions • add and subtract fractions with the same denominator • recognise and write decimal equivalents of any numberof tenths or hundredths • recognise and write decimal equivalents to ¼, ½, ¾ • find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths • round decimals with one decimal place to the nearest whole number

		● compare numbers with the same number of decimal places up to two decimal places
Statistics White Rose Maths as guidance	14	● interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs ● solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

Primary Mathematics Planning Framework Manor Park First Year 4

SPRING 1

Addition and Subtraction White Rose : continue from where you were	14-15	• add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate • estimate and use inverse operations to check answers to a calculation • solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
Geometry White Rose: Small steps as guidance	16-17	• compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes • identify acute and obtuse angles and compare and order angles up to two right angles by size • identify lines of symmetry in 2-D shapes presented in different orientations.
Measurement (Time) White Rose: Small steps as guidance	18	• read, write and convert time between analogue and digital 12- and 24-hour clocks • solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days • convert between different units of measure [for example,hour to minute]

Primary Mathematics Planning Framework Manor Park First Year 4

Spring 2

Multiplication and Division White Rose: continue –revisit-embed	19-20	● recall multiplication and division facts for multiplication tables up to 12 × 12 ● use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers ● multiply two-digit and three-digit numbers by a one-digit number using formal written layout ● recognise and use factor pairs and commutativity in mental calculations ● solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling and harder correspondence problems such as n objects are connected to m objects ● multiply two-digit and three-digit numbers by a one-digit number using formal written layout ● divide three-digit numbers by one-digit number using formal written methods.
Fractions White Rose: continue –revisit-embed – might	21-22	● solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Primary Mathematics Planning Framework Manor Park First Year 4

SUMMER 1

Number, Place Value Focus White Rose: continue –revisit-embed	23	● count in multiples of 6, 7, 9, 25 and 1000 ● find 1000 more or less than a given number ● identify, represent and estimate numbers using different representations ● round any number to the nearest 10, 100 or 1000 read Roman numerals to 100 (I to C) and know that, over time, the numeral system changed to include the concept of zero and place value.
Measurement (Length) White Rose: Area; Length and Perimeter	24-25	● measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres ● to find the area of rectilinear squares by counting. ● convert between different units of measure [for example, kilometre to metre
Geometry White Rose: Geometry: Position and Direction	35	● describe positions on a 2-D grid as coordinates in the first quadrant ● describe movements between positions as translations of a given unit to the left / right and up / down ● plot specified points and draw sides to complete a given polygon.

Primary Mathematics Planning Framework Manor Park First Year 4

SUMMER 2

Multiplication and division White Rose:	28-29	• recall multiplication and division facts for multiplication tables up to 12 × 12 • use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers • recognise and use factor pairs and commutativity in mental calculations • multiply two-digit and three-digit numbers by a one-digit number using formal written layout • solve problems involving multiplying and adding,including using the distributive law to multiply two digit numbers by one digit, integer scaling and harder correspondence problems such as n objects are connected to m objects. • find the area of rectilinear shapes by counting squares.).
Fractions White Rose: Fraction/Decimal	30-31	• count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten • recognise and show, using diagrams, families of common equivalent fractions • add and subtract fractions with the same denominator • recognise and write decimal equivalents of any number of tenths or hundredths • recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$. • find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths • round decimals with one decimal place to the nearest whole number • compare numbers with the same number of decimal places up to two decimal places