EYFS KEY PERFORMANCE INDICATORS

Year R

Autumn Term

Number: Recite numbers up to 6 in order accurately.
            Recite numbers backwards from 6 accurately.
            Identify numerals from 0-6.
            Write numerals 0-6
            Identify dice patterns (0-6).
            Order and compare numbers 1-6
            Count a set of objects accurately (0-6)
            Understand that numbers represent the amount of objects in a set (physical, pictorial, things that cannot be seen – steps/claps etc).
            Partition numbers 1-6 in different ways.

(Biggest part of this term is getting a real feel for the numbers 0-6 but hard to put that as an objective but must be the main focus)

SSM: Compare length (by physical/visual comparison)
            Compare weight (by physical comparison)

Spring Term:

All of the above plus:

Number: Write numerals to 10.
            Recite numbers to 15 in order accurately.
            Count a smaller set of objects from a bigger set of objects.
            Combine two sets of objects to make a larger amount (practical objects)
            Removing some objects to make a smaller amount.
            Write numerals 6-15.
            Order and compare numbers from 0-15.
            Partition numbers 6-10 in different ways.

(Biggest part of this term is getting a real feel for the numbers 6-10 but hard to put that as an objective but must be the main focus)

SSM: *No new statements this term.*

Summer Term:

All of the above plus:

Number: Write numerals 16-20
            Recite numbers to 20 in order accurately.
            Order and compare numbers from 0-20.
            Use language of addition and subtraction (more, less, all together, take away, bigger, smaller)
            Begin to make marks and numbers independently to record their maths work.
            Count on (rather than recounting)
            Understand what doubling means (two lots of the same amount)
            Understanding halving means (sharing between two equally)
            Solve doubling problems practically.
            Solve halving problems practically.
            Estimate sets of objects (0-10 objects)

SSM: Talk about money.
            Describe patterns and shapes.

YEAR 1 KEY PERFORMANCE INDICATORS
Year 1

Autumn Term

Place value:

        Count on in ones to 30.

        Count back in ones from 30.

        Identify one more than a given number.

        Identify one less than a given number.

        Find a number on a number line/number square.

        Write numbers in numerals up to 30.

Add/Sub: Understand part/part whole structure of addition and subtraction.

        Know number bonds to 5.

        Know subtraction facts from 5.

        Understand what = means.

        Know number bonds to 10.

        Know subtraction facts from 10.

Mult/Div: *no statements this term.*

Fractions: Understanding halving as splitting an object/shape into two equal parts.

Spring Term:

All of the above plus:

Place value:

        Count on in ones to 100.

        Count back in ones from 100.

        Count in multiples of 2.

        Identify odd and even numbers within 20.

        Write 0-20 in words.

        Count in multiples of 10.

        Know the 2 times table.

        Know the 10 times table.

Add/Sub: Add single digit numbers.

        Subtract single digit numbers.

        Add single digit numbers to numbers within 20.

        Subtract single digit numbers from numbers within 20.

Mult/Div: Represent multiplication calculations with concrete apparatus or pictorially.

        Represent division calculations with concrete apparatus or pictorially.

        Use concrete apparatus/pictures to solve multiplication problems.

        Use concrete apparatus/pictures to solve division problems.

        Understand multiplication as repeated addition.

        Understand division as repeated subtraction.

        Know half of even numbers up to 10.

        Know doubles up to double 5.

Fractions: Understand what ¼ means and represent it (concrete/pictorial)

        Find ½ and ¼ of a set of objects (concrete)

Summer Term:

All of the above plus:

Place value:

        Write 11-20 in words.
        Count in multiples of 5.
        Use a number line with missing numbers.

Add/Sub: Know number bonds to 20.
        Know subtraction facts from 20.
        Solve missing number problems for addition and subtraction within 20.

Mult/Div: *No new statements this term.*

Fractions: Find ½ and ¼ of measures.

YEAR 2 KEY PERFORMANCE INDICATORS
Year 2

Autumn Term

Place value:

            Count on in 10s from any number.

            Count back in 10s from any number.

            Identify the greatest and smallest numbers in a selection.

            Compare numbers using < > and = signs.

            Partition numbers in different ways.

Add/Sub: Know addition facts to 20.

            Know subtraction facts from 20.

            Add two single digit numbers.

            Subtract a single digit number from another single digit number.

            Add more than two single digit numbers together.

            Add a single digit number to a 2-digit number.

            Subtract a single digit number from a 2-digit number.

Mult/Div: Know 2 times table and resulting division facts.

            Identify odd and even numbers.

            Know 10 times table and resulting division facts.

            Calculate mathematical statements for x and ÷ (multiples of 1,2,10)

Fractions: Find ½ and ¼ of a shape.

            Find ½ and ¼ of a number.

Spring Term:

All of the above plus:

Place value:

            Make accurate estimates (up to 100).

            Partition numbers in different ways.

            Estimate position of numbers on a number line accurately (up to 100).

            Round 2 digit numbers to the nearest 10.

Add/Sub: Use addition facts to 20 to derive related facts up to 100.

            Use subtraction facts from 20 to derive related facts up to 100.

            Add multiples of ten to 2-digit numbers.

            Subtract multiples of 10 from 2-digit numbers.

            Add two 2-digit numbers.

            Subtract a 2-digit number from another 2-digit number.

            Write the inverse number sentence when given an addition or subtraction calculation.

Mult/Div: Know doubles up to double 10.

            Know halves of even numbers up to half of 20.

            Understand why halving even numbers and odd numbers is different.

            Double multiples of 10 (up to double 100)

            Know 5 times table and related division facts

Fractions: Recognise that 2/4 is the same as ½.

            Find ¾ of a shape/amount.

            Find 1/3 of a shape/amount.

Summer Term:

All of the above plus:

Place value:

Understand the role of 0 as a placeholder.
Find multiples of 5 and 10 on a number line.
Write numbers to 100 in words.

Add/Sub: *no new statements.*

Mult/Div: Interpret multiplication number sentences to calculate.
Interpret division number sentences to calculate.
Understand commutative property of multiplication.
Understand why order of division calculation is important.
Know 3 times tables and resulting division facts.
Identify inverse calculation when given a multiplication or division calculation.

Fractions: Write simple fraction statements.

YEAR 3 KEY PERFORMANCE INDICATORS
Year 3

Autumn Term

Place value:

Count in 50s and 100s from 0.
Calculate 10 more and 10 less than a given number.
Calculate 10 more and 10 less than a given number.
Identify the place value of each digit in a 3 digit number.
Represent numbers (up to 100) using manipulatives.
Represent numbers (up to 100) visually (drawing diennes).
Compare and order numbers to 1000.
Write numbers up to 1000 in numerals.
Count in multiples of 4.

Add/Sub: Add single digit numbers to 3 digit numbers mentally.
Subtract single digit numbers to 3 digit numbers mentally.
Add multiples of 10 to 3 digit numbers mentally.
Subtract multiples of 10 to 3 digit numbers mentally.
Add 2 digit numbers together mentally.
Subtract 2 digit numbers mentally.

Mult/Div: Know 3 times table and resulting division facts.
Know 4 times table and resulting division facts.
Multiply 2 digit by single digit using partitioning and grouping.

Fractions: Find fractions of a shape or amount (1/2, ¼, ¾, 1/10)

Spring Term:

All of the above plus:

Place value:

Make accurate estimates (up to 100).
Partition numbers in different ways.
Estimate position of numbers on a number line accurately (up to 100).
Round 2 digit numbers to the nearest 10.

Add/Sub: Add hundreds to three digit numbers mentally.
Subtract hundreds from three digit numbers mentally.
Use rounding to estimate answers to addition and subtraction calculation.
Use column addition to add numbers (up to 3 digits).

Mult/Div: Know 8 times table and related division facts
Double 2 digit numbers/Halve 2 digit numbers
Use formal method for division.

Fractions: Identify and calculate equivalent fractions (using diagrams).
Add and subtract fractions with the same denominator.

Summer Term:

All of the above plus:

Place value:

Make accurate estimates (up to 1000).
Estimate position of numbers on a number line accurately (up to 100).
Round 2 digit numbers to the nearest 10.
Write numbers up to 1000 in words.

Add/Sub: Use column subtraction to subtract numbers (up to 3 digits).
Identify the inverse of an addition/subtraction number sentence.
Use the inverse to check addition and subtraction calculations.

Mult/Div: Know 6 times table and resulting division facts.
Use scaling to solve problems.
Use formal method for multiplication.

Fractions: Place fractions on a number line (understanding them as numbers vs operators)
Compare and order fractions
Skip count in ¼, ½ and 1/10 (go past 1)

YEAR 4 KEY PERFORMANCE INDICATORS
Year 4

Autumn Term

Place value:

Count in 25s from 0.

Count in 1000s from 0.

Identify 10 more/less than a given number.

Identify 100 more/less than a given number.

Identify 1000 more/less than a given number.

Understand what each digit represents (up to 4 digit numbers).

Round to the nearest 10 (up to 3-digit numbers).

Add/Sub: Add mentally (up to 3 digit numbers).

Subtract mentally (up to 3-digit numbers)

Need to look at this - what do we expect as probably wouldn't be able to do this for all!.

Subtract using the column method (up to 4 digit numbers).

Mult/Div: Multiply larger numbers by 10.

Identify factor pairs.

Know 6 times table and resulting division facts.

Know 9 times table and resulting division facts.

Solve multiplication calculations mentally

Solve division calculations mentally.

Need to look at this - what do we expect as probably wouldn't be able to do this for all!.

Fractions: Find 1/100 of an amount.

Find equivalent fractions for ?/100.

Count in ½, ¼, 1/10, 1/3, 1/5 (over one)

Spring Term:

All of the above plus:

Place value:

Order and compare numbers up to 9999 using a range of number lines.

Round to the nearest 100.

Round to the nearest 1000.

Understand decimal numbers and what they represent.

Understand what each digit in a number represents (including to 2dp).

Compare numbers with 2 dp.

Add/Sub: Add using the column method (up to 4 digits).

Estimate answers to addition calculations.

Estimate answers to subtraction calculations.

Identify an inverse number sentence when given an addition or subtraction number sentence.

Mult/Div: Know 7 times table and related division facts

Know 11 times table and related division facts

Know 12 times table and related division facts

Divide a 2/3 digit number by a single digit number using short division.

Multiply 2/3 digit numbers by a one digit number using a formal method.

Understand remainders.

Divide a one-digit number by 10/100.

Multiply an one-digit number by 10/100.

Fractions: Write decimal equivalents of any number of tenths and hundredths.

Know decimal equivalents for ¼, ½ and ¾.

Summer Term:

All of the above plus:

Place value: Count backwards through zero to include negative numbers.
 Round to the nearest whole number.
 Place decimals on a number line.
 Count forwards and backwards in decimal jumps.

Add/Sub: Addition of money and measures (to include decimals).
 Subtraction of money and measures (to include decimals).

Mult/Div: Multiply 3 single digit numbers together.
 Know how to use times tables facts for larger numbers.

 Fractions: Add and subtract fractions with the same denominator.
 Calculate equivalent fractions.

YEAR 5 KEY PERFORMANCE INDICATORS

Year 5

Autumn Term

Place value:　　Read numbers to 1 000 000.
　　　　　　　　Write numbers to 1 000 000.
　　　　　　　　Order numbers to 1 000 000.
　　　　　　　　Compare numbers to 1 000 000.
　　　　　　　　Round numbers to all place value columns (including dp)
　　　　　　　　Read numbers with up to 3dp.
　　　　　　　　Write numbers with up to 3dp.
　　　　　　　　Order numbers with up to 3dp.
　　　　　　　　Compare numbers with up to 3dp.

Add/Sub:　　Add mentally
　　　　　　　Subtract mentally
Need to look at this - what do we expect?
　　　　　　　Subtract using formal written methods
　　　　　　　Estimate to check accuracy of calculations

Mult/Div:　　Find all factor pairs for a given number
　　　　　　　Find common factors
　　　　　　　Understand what a prime number is
　　　　　　　Understand what a composite number is
　　　　　　　Identify multiples of a given number
　　　　　　　Use known facts to multiply and divide mentally
Need to look at this - what do we expect?
　　　　　　　Know all prime numbers up to 19
　　　　　　　Identify if a number is prime (0-100)
　　　　　　　Multiply 4-digit by 2-digit number

Fractions:　　Write decimal numbers as fractions
　　　　　　　　Understand thousandths and relate them to tenths and hundreths

Spring Term:

All of the above plus:

Place value:　　Count forwards in multiples of 10 from any given number.
　　　　　　　　Identify the rule for a sequence.
　　　　　　　　Complete missing number in number sequence.

Add/Sub:　　　Add using formal written methods.
　　　　　　　　Add decimals (including money and measure).
　　　　　　　　Subtract decimals (including money and measure)
　　　　　　　　Know decimal compliments to 1 (0.87 + 0.13 = 1)

Mult/Div:　　　Divide a number (up to 4 digits) by a one digit number using formal written method
　　　　　　　　Understand remainders
　　　　　　　　Understand role of remainders in problem solving (round up or down)
　　　　　　　　Multiply and divide numbers (including decimals) by 10/100/1000

Fractions:　　　Compare fractions whose denominators are multiples of the same number.
　　　　　　　　Order fractions whose denominators are multiples of the same number.
　　　　　　　　Identify equivalent fractions of a given number
　　　　　　　　Add and subtract fractions with different denominators
　　　　　　　　Convert percentages to fractions (?/100) and fractions to percentages.

YEAR 5 KEY PERFORMANCE INDICATORS
Know Fraction/Decimal/Percentage equivalent for ½, ¼, ¾
Summer Term:
All of the above plus:

Place value: *No new statements*

Add/Sub: Solve addition calculations involving negative numbers.
                Solve subtraction calculations involving negative numbers

Mult/Div: Understand notation for cube and square numbers
                 Know all square numbers (up to 12²)
                 Calculate square and cube numbers
                 Represent remainders in division as fractions.
                 Represent remainders in division as fractions.

 Fractions: Convert between mixed numbers and improper fractions
                 Know Fraction/Decimal/Percentage equivalent for 1/5, 1/10, 1/3
                 Multiply fractions by whole numbers (using diagrams) |

YEAR 6 KEY PERFORMANCE INDICATORS
Year 6

Autumn Term

Place value: Read numbers to 10 000 000.
                Write numbers to 10 000 000.
                Order numbers to 10 000 000.
                Compare numbers to 10 000 000.
                Understand the value of each digit (including dp)
                Place numbers on a range of number lines
                Round to any place value column

Add/Sub: Calculate using order of operations (BODMAS)
                Add mentally
                Subtract mentally
Need to look at this - what do we expect?
                Subtract whole numbers using formal written methods
                Add whole numbers using formal written methods
                Subtract decimals using formal written methods
                Add decimals using formal written methods

Mult/Div: Multiply a 4-digit number by 2-digit number.
                Divide numbers up to 4 digits by single digit numbers (short division)
                Divide numbers up to 4 digits by a 2-digit number (long division)
                Interpret remainders.
                Identify factors.
                Identify multiples.
                Identify prime numbers.
                Multiply and divide by 10/100/1000.

Fractions: Simplify fractions
                Compare fractions
                Order fractions
                Calculate fractions of amounts
                Add and subtract fractions
                Calculate percentages

Spring Term:

All of the above plus:

Place value: *No new statements.*

Add/Sub: Calculate addition and subtraction involving negative numbers
                Know how to check answers using different methods

Mult/Div: Know how to check answers using different methods

Fractions: Multiply pairs of fractions.
                Divide fractions by whole numbers
                Calculate decimal/fraction equivalents

Summer Term:
All of the above plus: *No new statements in summer term due to timing of SATS*