

Reception

Place Value	Addition and Subtraction	Multiplication and division
♣ Subitise numbers to 5 ○ quick recognition of sides of a dice 1=5. ♣ Read and understand numbers to 10 ○ ID the digits out of order for 0-10 ○ Order number 0-10 ○ Accurately count up to 10 items – can you give me 8 animals etc. ♣ Pictorial representation of numbers up to 10 ○ Can identify numbers to 10 on tens frames, or images e.g. 5 frogs, 3 dogs. ♣ say one more or one less than a number up to 10 ○ e.g. What is one more than 6? What is one less than 4. with the use of a number line. ❖ Verbally count beyond 20 ○ Rote count to 20 ❖ Recognising the pattern of the counting system. ○ For example, 13 = 1 ten and 3 ones, the ones value increases by one	♣ Know all bonds to 5 (including subtraction facts) and some bonds to 10 ○ Must be by rote for 5 and 10. ❖ Subtraction facts within five e.g. $5-3 = 5-2 =$ ♣ Know some double facts up to $5+5$ ○ Ideally must be by rote. What's double 4? Double 2? Also able to show practically. School aims - mark making calculations using the child's preferred method, ideally using $+$ $-$ $=$ operations. - child can read and follow a number sentence and use their preferred method to solve. - understand add is more, subtract is less. Understand the different vocab e.g. add, plus, more, subtract, minus, take away.	♣ Understand that half is sharing into 2 equal groups ○ Can you show me how to halve 8? What is half of 8? ○ Rote recall ideal. ❖ how quantities can be distributed equally ○ can you share 8 cakes between the 4 teddies equally? How many does each teddy get? ❖ Explore and represent patterns within numbers up to 10, including evens and odds. ○ Is 8 and odd or even number? Show me and why? ○ Ext: what pattern in numbers do you notice when looking at odds and evens? If 5 is odd what will 6 be?

each time, until it reaches 9 (19) and then you change the tens digit.

- Order numbers 11-20

❖ Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.

- E.g. your bag has 8 sweets, I have 5 sweets who has more sweets.

School aims

- Writing numbers with mostly correct formation.

Year 1

Name _____

Place Value	Addition and Subtraction	Multiplication and division	Fractions
♣ identify one more and one less up to 100 from any given number ♣ read and write numbers from 1 to 20 in numerals and use the symbols + - =	♣ represent and use number bonds and related subtraction facts within 20 ♣ add and subtract one-digit and two-digit numbers to 20, including zero - Including missing number problems ♣ Know all bonds to 10	♣ count in multiples of 2, 5 and 10	♣ recognise, find and name a half and a quarter of a shape or quantity

Year 2

Name _____

Place Value	Addition and Subtraction	Multiplication and division	Fractions
♣ count in steps of 3s forward and backward ♣ recognise the place value of each digit in a two-digit number (tens, ones) ♣ compare and order numbers from 0 up to 100; use <, > and = signs ♣ read and write numbers to at least 100 in numerals	♣ recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 ♣ To be able to add: a 2-digit number and ones, a 2-digit number and tens, two 2-digit numbers, three 1-digit numbers ♣ Including missing number problems	♣ recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, and write them using the multiplication (×), division (÷) and equals (=) signs	♣ recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$ of a shape and quantity ♣ recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

Year 3

Name _____

Place Value	Addition and Subtraction	Multiplication and division	Fractions
♣ count from 0 in 50s and 100s to 1000 ♣ find 10 or 100 more or less than a given number ♣ recognise the place value of each digit in a three-digit number (hundreds, tens, ones) ♣ compare and order numbers up to 1000 ♣ read and write numbers up to 1000 in numerals	♣ add and subtract numbers mentally, including: a 3-digit number and ones, a 3-digit number and tens, a 3-digit number and hundreds ♣ add and subtract numbers with up to three digits, using column method ♣ solve missing number problems	♣ recall and use multiplication and division facts for the 3, 4, 6 and 8 multiplication tables ♣ solve missing number problems	♣ count up and down in tenths; recognise that tenths arise from dividing a shape or quantity into 10 equal parts ♣ recognise and show fractions equivalent to $\frac{1}{2}$ ♣ add and subtract fractions with the same denominator within one whole ♣ compare and order unit fractions, and fractions with the same denominators

Year 4

Name _____

Place Value	Addition and Subtraction	Multiplication and division	Fractions (inc. decimals)
♣ count in multiples of 25 and 1000 ♣ find 1000 more or less than a given number ♣ count backwards through zero to include negative numbers ♣ recognise the place value of each digit in a 4-digit number, tenths and hundredths	♣ add and subtract numbers with up to 4 digits using the column method -including where exchange is needed ♣ solve missing number problems	♣ recall multiplication and division facts for multiplication tables up to 12×12 (including 0) ♣ multiply together three numbers ♣ multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout ♣ solve missing number problems	♣ to know common equivalent fractions ♣ count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. ♣ recognise and write decimal equivalents of any number of tenths or hundredths $\frac{1}{4}$ $\frac{23}{44}$

♣ order and compare numbers beyond 1000 and to 2 decimal-places ♣ round any number to the nearest 10, 100 or 1000			♣ find the effect of dividing a one or two-digit number by 10 and 100, ♣ round decimals with one decimal place to the nearest whole number
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Year 5

Name _____

Place Value	Addition and Subtraction	Multiplication and division	Fractions
♣ read, write, order and compare numbers to at least 1 000 000 and 3-decimal places and determine the value of each digit ♣ round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	♣ add and subtract whole numbers with more than 4 digits, including using formal written methods ♣ solve missing number problems	♣ multiply numbers up to 4 digits by a two-digit number using a formal written method, including long multiplication ♣ divide numbers up to 4 digits by a one-digit number using the formal written method. ♣ multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	♣ recognise mixed numbers and improper fractions and convert from one form to the other ♣ compare, order, add and subtract fractions with the same denominator and denominators that are multiples of the same number

		♣ solve missing number problems	♣ multiply proper fractions and mixed numbers by whole number ♣ read and write decimal numbers as fractions including thousandths ♣ round decimals with two decimal places to the nearest whole number and to one decimal place ♣ recognise the per cent symbol (%) and write this as a fraction and a decimal
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Year 6

Name _____

Place Value	4 operations	Fractions
♣ Read, write and order numbers to 10000000 and three decimal places	♣ divide numbers up to 4 digits by a two-digit whole number ♣ use their knowledge of the order of operations to carry out calculations involving the four operations ♣ solve missing number problems	♣ use common factors to simplify fractions; use common multiples to express fractions in the same denomination

		♣ add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions ♣ multiply simple pairs of proper fractions, writing the answer in its simplest form ♣ divide proper fractions by whole numbers ♣ multiply one-digit numbers with up to two decimal places by whole numbers ♣ use written division methods in cases where the answer has up to two decimal places ♣ recall and use equivalences between fractions, decimals and percentages
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