

Maths Key Programmes of Study – Reception to Year 3



Reception	Year 1	Year 2	Year 3
<ul style="list-style-type: none"> Count reliably to 20. Order numbers 1 – 20. Say 1 more/1 less to 20. Add and subtract two single digit numbers. 	<ul style="list-style-type: none"> Identify and represent numbers using concrete objects and pictorial representations. Count to & across 100, forwards & backwards from any number. Read & write numbers to 20 in digits & words. Read & write numbers to 100 in digits. Say 1 more/1 less to 100. Count in multiples of 1, 2, 5 & 10. Know bonds to 20 by heart. Use bonds & subtraction facts to 20. <p>Add & subtract:</p> <ul style="list-style-type: none"> 1 digit & 2 digit numbers to 20, including zero. Add any three 1-digit numbers with a total up to 20. Solve simple multiplication & division with apparatus & arrays. Recognise half and quarter of object, shape or quantity. 	<ul style="list-style-type: none"> Count in multiples of 2, 3 & 5 & 10 from any number up to 100. Compare & order numbers up to 100; use <, >, = signs. Read & write all numbers to 100 in digits & words. Recognise the place value of any 2-digit number. Say 10 more/less than any number to 100. Recall & use +/- facts to 20. Recall & use multiplication & division facts for 2, 5 & 10 tables <p>Add & subtract:</p> <ul style="list-style-type: none"> 2-digit numbers and ones 2-digit numbers and tens Two 2-digit numbers Three 1-digit numbers <ul style="list-style-type: none"> Recognise and use inverse the inverse relationship between addition and subtraction Recognise and use the inverse relationship between multiplication and division. Recognise, find, name & write 1/3; 1/4; 2/4; 3/4. Recognise equivalence of simple fractions. 	<ul style="list-style-type: none"> Count from 0 in multiples of 4, 8, 50 & 100. Compare & order numbers up to 1000. Read & write all numbers to 1000 in digits & words. Find 10 or 100 more/less than a given number. Recall & use multiplication & division facts for 3, 4, 8 tables. Recognise the place value of any 3-digit number. <p>Add & subtract:</p> <ul style="list-style-type: none"> 3-digit numbers and ones 3-digit numbers and tens 3-digit numbers and hundreds <p>Add & subtract:</p> <ul style="list-style-type: none"> Numbers with up to 3-digits using a formal method of column addition. Use inverse to check. <p>Multiply:</p> <ul style="list-style-type: none"> 2-digit by 1-digit Count up/down in tenths. Compare & order fractions with same denominator. +/- fractions with same denominator with whole. Know pairs of fractions that total 1.

Key Programmes of Study – Year 4 to 6



Year 4	Year 5	Year 6
<ul style="list-style-type: none"> Count backwards through zero to include negative numbers. Count in multiples of 6, 7, 9, 25 & 1000. Compare & order numbers beyond 1000. Compare & order numbers with 2 decimal places. Find 1000 more/less than a given number. Recall & use multiplication & division facts to 12x12. Recognise the place value of any 4-digit number. Round any number to the nearest 10, 100 or 1000. Round decimals with 1dp to nearest whole number. <p>Add & subtract:</p> <ul style="list-style-type: none"> Numbers with up to 4-digits using efficient written method (column). Numbers with up to 1dp. <p>Multiply:</p> <ul style="list-style-type: none"> 2-digit by 1-digit 3-digit by 1-digit Whole numbers by 10 <p>Divide:</p> <ul style="list-style-type: none"> 3-digit by 1-digit Whole numbers by a thousand <ul style="list-style-type: none"> Write equivalent fractions +/- fractions with same denominator. 	<ul style="list-style-type: none"> Count forwards/backwards in steps of powers of 10 for any given number up to 1000000. Count forwards & backward with positive & negative numbers through zero. Read, write order and compare numbers to at least 1000000 Compare & order numbers with 3 decimal places. Use known tables to derive other number facts. Recognise PV of any number up to 1000000. Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 or 100000. Identify all multiples & factors, including finding all factor pairs. Recall prime numbers up to 19. Recognise and use square numbers. Round decimals with 2dp to nearest whole number & 1dp. <p>Add & subtract:</p> <ul style="list-style-type: none"> Numbers with more than 4-digits using efficient written method (column). Numbers with up to 2dp. <p>Multiply:</p> <ul style="list-style-type: none"> 4-digits by 1-digit/ 2-digit <p>Divide:</p> <ul style="list-style-type: none"> 4-digits by 1-digit. <p>Multiply & divide:</p> <ul style="list-style-type: none"> Whole numbers & decimals by 10, 100 & 1000 <ul style="list-style-type: none"> Recognise mixed numbers & fractions & convert from one to another. Multiply proper fractions by whole numbers. 	<ul style="list-style-type: none"> Compare & order numbers up to 10000000. Use negative numbers in context and calculate numbers across zero. Round any whole number to a required degree of accuracy. Identify common factors, common multiples & prime numbers. <p>Multiply:</p> <ul style="list-style-type: none"> 4-digit by 2-digit Whole and decimal numbers by 10, 100 and 1000. <p>Divide:</p> <ul style="list-style-type: none"> 4-digit by 2-digit Whole and decimal numbers by 10, 100 and 1000. <ul style="list-style-type: none"> Add & subtract fractions with different denominators & mixed numbers. Multiply simple pairs of proper fractions, writing the answer in the simplest form. Divide proper fractions by whole numbers. Calculate % of whole number.