

Maths Arithmetic Road Map

	Y1	Y2	Y3	Y4	Y5	Y6
Addition and Subtraction	Number bonds to 20 + and - 1 and 2 digit numbers to 20	Use + and - facts to 20 + and -: - a two-digit number and ones/tens - two two-digit numbers + three one-digit numbers	Mental Maths + and - a three-digit number and ones/tens/hundreds Column Method + and - numbers with up to three digits	Column Method + and - numbers with up to 4 digits	Column Method + and - whole numbers with more than 4 digits	BODMAS
Multiplication and Division	Count in multiples of twos, fives and tens	Count in steps of 2, 3, and 5 from 0 Count in tens from any number × and ÷ facts for the 2, 5 and 10 times tables Recognise odd and even numbers	Multiplication and division facts for the 3, 4 and 8 times tables Column Method × 2 digit by 1 digit	Multiplication tables up to 12×12 (and associated division) Multiplying by 0 and 1 Dividing by 1 Multiplying together three numbers Recognise and use factor pairs Column Method × two-digit and three-digit numbers by a one digit number	Multiply and divide whole numbers and decimals by 10, 100 and 1000 Identify multiples and factors Prime numbers, prime factors and composite numbers Recognise and use square numbers and cube numbers Column Method × numbers up to 4 digits by a one- or two-digit number Bus Stop Method ÷ numbers up to 4 digits by a one-digit number	Common factors, common multiples and prime numbers Column Method × multi-digit numbers up to 4 digits by a two-digit whole number Bus Stop Method (short and long) ÷ numbers up to 4-digits by a two-digit whole number. Interpret remainders as whole number remainders, fractions, or by rounding

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Fractions, decimals and percentages	$\frac{1}{2}$ and $\frac{1}{4}$ of a shape or quantity	Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity Write simple fractions e.g. $\frac{1}{2}$ of 6 = 3 Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	Count up and down in tenths Recognise, find and write fractions of a set of objects Compare and order unit fractions, and fractions with the same denominators Recognise and show, using diagrams, equivalent fractions with small denominators Add and subtract fractions with the same denominator within one whole (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)	Fractions Count up and down in hundredths Recognise families of equivalent fractions Add and subtract fractions with the same denominator Decimals Compare numbers with the same number of decimal places up to two decimal places Round decimals with one decimal place Decimal equivalents of any number of tenths or hundredths Decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$ Dividing a one- or two-digit number by 10 and 100,	Fractions Recognise and use thousandths and decimal equivalents Compare and order fractions whose denominators are all multiples of the same number Add and subtract fractions with the same denominator and multiples of the same number Recognise mixed numbers and improper fractions and convert from one form to the other (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$) Multiply proper fractions and mixed numbers by whole numbers, Decimals Read, write, order and compare numbers with up to three decimal places Round decimals with two decimal places to the nearest whole number and to one decimal place Read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$) Percentages Write percentages as a fraction with denominator 100	Fractions Compare and order fractions, including fractions >1 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 Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$) Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$) Multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places Decimals Identify the value of each digit in numbers given to three decimal places Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $\frac{3}{8}$) Multiply one-digit numbers with up to two decimal places by whole numbers Percentages Recall and use equivalences between simple fractions, decimals and percentages Find percentages of amounts