

Holy Trinity CE Primary School



Progression in Arithmetic

	Place Value / Counting	Addition & Subtraction	Multiplication & Division	Fractions, Decimals & Percentages
Reception	<ul style="list-style-type: none"> Count to 10 with 1:1 correspondence Verbally count beyond 20 Subitise up to 5 Compare quantities up to 10 (greater than, less than, equal to) Recognise evens and odds to 10 1 more and 1 less up to 10 	<ul style="list-style-type: none"> Recall number bonds to 10 	<ul style="list-style-type: none"> Doubles to 10 Distribute quantities evenly up to 10 	
Year 1	<ul style="list-style-type: none"> 1 more and 1 less up to 100 Count forwards & backwards to and across 100 Count in 2s, 5s & 10s up to 100 	<ul style="list-style-type: none"> Recall number bonds & related subtraction facts within 20 Read, write & interpret calculations using + - = symbols Add & subtract 1 and 2 digit numbers from 0 to 20 Use inverse to solve missing number problems 	<ul style="list-style-type: none"> Double numbers up to 20 Sharing equally up to 20 	<ul style="list-style-type: none"> $\frac{1}{2}$ & $\frac{1}{4}$ of an object, shape or quantity
Year 2	<ul style="list-style-type: none"> Count in 2s, 3s, 5s & 10s from any given number Compare & order to 100 using < > = symbols 10 more and 10 less 	<ul style="list-style-type: none"> Related facts to 100 TO + O TO + T TO + TO O + O + O 	<ul style="list-style-type: none"> x2 tables (& division facts) x5 tables (& division facts) 	<ul style="list-style-type: none"> $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{2}{4}$, $\frac{3}{4}$ of a length, shape, set of objects or quantity

		<ul style="list-style-type: none"> • TO – O • TO – T • TO – TO • Inverse / missing number problems • Balance equation using + & - 	<ul style="list-style-type: none"> • x10 tables (& division facts) • Commutative law (multiplication) • Biggest number first (division) 	
Year 3	<ul style="list-style-type: none"> • Count in 4s, 8s, 50s and 100s from any given number • 10 and 100 more or less • Compare and order numbers up to 1,000 	<ul style="list-style-type: none"> • Mentally: HTO + O • Mentally: HTO + T • Mentally: HTO + H • Mentally: HTO – O • Mentally: HTO – T • Mentally: HTO – H • Add up to 3 digits • Subtract up to 3 digits • Use inverse 	<ul style="list-style-type: none"> • x3 tables (& division facts) • x4 tables (& division facts) • x8 tables (& division facts) • TO x O • TO ÷ O • Use inverse 	<ul style="list-style-type: none"> • Count up and down in tenths • Add & subtract fractions with same denominator within one whole • Compare and order fractions • Partition the whole of a fraction
Year 4	<ul style="list-style-type: none"> • Count in multiples of 6, 7, 9, 11, 12, 25 & 1,000 • 1,000 more or less • Count back through zero • Compare and order numbers beyond 1,000 • Round to nearest 10, 100 and 1,000 • Read Roman numerals to 100 (C) 	<ul style="list-style-type: none"> • Add up to 4 digits • Subtract up to 4 digits • Use inverse 	<ul style="list-style-type: none"> • Recall multiplication and division facts up to 12 x 12 • Multiply by 0 and by 1 • Divide by 1 • Multiply 3 one digit numbers (O x O x O) • Factor pairs • Commutativity • x and ÷ for known facts (eg. 40 x 40) • x and ÷ by 10 and 100 • Formal written method TO x O and HTO x O 	<ul style="list-style-type: none"> • Count up and down in hundredths • Add & subtract fractions with same denominator (including improper) • Fractions of amounts • Decimal equivalents (tenths, hundredths, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$) • Round decimals with 1dp to nearest whole • Compare decimals up to 2dp

			<ul style="list-style-type: none"> Formal written method HTO ÷ O (no remainder) Use inverse 	
Year 5	<ul style="list-style-type: none"> Order & compare numbers to at least 1,000,000 Count forward or back in steps of powers of 10 to 1,000,000 Count forwards and backwards with negative numbers Round numbers up to 1,000,000 by 10, 100, 1,000, 10,000 & 100,000 Read Roman numerals to 1,000, including years 	<ul style="list-style-type: none"> Column addition with numbers beyond 4 digits Column subtraction with numbers beyond 4 digits 	<ul style="list-style-type: none"> Factor pairs Common factors of two numbers Establish whether a number is prime up to 100 and know prime numbers up to 19 Square & cube numbers Multiply up to ThHTO by O using short multiplication Multiply up to ThHTO by TO using long multiplication x and ÷ for known facts Divide up to ThHTO by O using short division (including remainders) x and ÷ whole numbers and decimals by 10, 100 & 1,000 	<ul style="list-style-type: none"> Compare & order fractions (denominators are multiples) Equivalent fractions Convert between mixed numbers and improper fractions Add & subtract fractions (same denominator & where denominators are multiples) Whole number x fraction or mixed number fraction Convert between decimals and fractions (eg. $71/100 = 0.71$) Round 2dp to 1dp or whole Order & compare up to 3dp
Year 6	<ul style="list-style-type: none"> Order & compare numbers to 10,000,000 Round any whole number Use negative numbers and calculate across 0 	<ul style="list-style-type: none"> BIDMAS 	<ul style="list-style-type: none"> Common factors Common multiples Prime numbers to 100 Divide up to ThHTO by TO using long division (including remainders) BIDMAS 	<ul style="list-style-type: none"> use common fractions to simplify and common multiples to express fractions with same denomination

				<ul style="list-style-type: none">• Compare & order fractions (including beyond 1)• Add & subtract fractions (different denominators & mixed numbers) using equivalence• Multiply proper fractions• Divide proper fractions by whole numbers• Equivalence between fractions, decimals & %• X & ÷ by 10, 100 & 1,000 up to 3dp• Whole number x O.TH• Division method with up to 2dp• Solve problems involving rounding with decimals
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