Mathematics – Progression of Knowledge

	EYFS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
Counting & ordering	Count reliably to 20 Recognise & Order numbers 1-20 Count with 1:1 correspondence	Count to and across 100, forwards & backwards from any number.	Compare & order numbers up to 100 & use <> =	Compare & order numbers up to 1,000.	Count backwards through zero to include negative numbers. Compare & order numbers beyond 1 000. Compare & order numbers with up to 2 decimal places Read Roman numerals up to 100.	Count forward & backward with positive 7 negative numbers through zero. Count forwards/backwards in steps of powers of 10 for any given number up to 1 000 000. Compare & order numbers with 3 decimal places Read Roman numerals to 1 000.	Use negative numbers in context & calculate intervals across zero Compare & order numbers up to 10 000 000
Numbers & More/Less	Say 1 more/ 1 less to 20	Read & write numbers to 20 in numerals & words. Read & write numbers to 100 in numerals. Say 1 more /1 less to 100	Read & write all numbers to 100 in digits & words. Say 10 more/less than any number to 100.	Read & write all numbers to 1 000 in digits & words. Find 10 or 100 more/less than a given number	Find 1 000 more/less than a given number		
Tables & Multiples	Count orally in 2's & 10's Solve problems, including doubling & sharing.	Count in multiples of 1,2,5 & 10	Count in steps of 2, 3 & 5 from any number up to 100 & in 10s from any number Forward/backward) Recall & use multiplication & division facts for 2 5 & 10 tables	Count from 0 in multiples of 4 ,8, 50 & 100. Recall & use multiplication & division facs all tables to 12x 12.	Count in multiples of 6,7,9,25 & 1000. Recall & use multiplication & division facts all tables to 12x12	Identify all multiples & factors including finding all factor pairs.	Identify common factors common multiples & prime numbers
Bonds & Facts		Use bonds & subtraction facts to 20.	Recall & use =/- facts to 20. Derive & use related facts to 100.			Recall prime numbers up to 19. Recognise & use square numbers & cube numbers.	

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Place value & rounding			Recognise PV of any 2 –digit number.	Recognise PV of any 3 digit number.	Recognise PV of any 4-digit number. Round any number to the nearest 10, 100 or 1000. Round decimals with 1 dp to nearest whole number.	Recognise PV of any number up to 1 000 000. Round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000, 1000000. Round decimals with 2dp to nearest whole number & 1dp.	Round any whole number to a required degree of accuracy. Identify value of each digit to 3dp.
Calculations +/-	Add & subtract two single digit numbers. Count on/back to find the answer	Add & subtract: 1 & 2 digit numbers to 20, including zero.	Add & subtract: 2 digit nos & ones 2 digit nos & tens Two 2 digit nos Three 1 digit nos	Add & Subtract: 3 digit nos & ones 3 digit nos & tens 3 digit nos & hundreds Add & Subtract: Numbers with up to 3 digits using written columnar method Estimate & use inverse to check.	Add & Subtract: Numbers with up to 4 digits using written columnar method. Numbers up to 1dp. Estimate and use inverse to check.	Add & subtract: Numbers with more than 4 digits using formal written method. Numbers with up to 2dp. Use rounding to check answers.	Use knowledge of order of operations to carry out calculations involving 4 operations Use estimation to check answers.
Calculations x/÷		Solve one-step multiplication & division using objects, pictorial representations & arrays.	Calculate & write multiplication & division calculations using multiplication tables. Write & recognise & use inverse	Multiply: 2 digit by 1 digit	Multiply: 2 digits by 1 digit 3 digits by 1 digit	Multiply: 4 digits by 1 digit/ 2 digits Divide: Up to 4 digits by 1 digit Multiply & Divide: Whole numbers & decimals by 10, 100 & 1000.	Multiply: 4 digit by 2 digit Divide: 4 digit by 2 digit
Fractions & percentages	Solve problems involving sharing	Recognise half and quarter of object, shape or quantity.	Recognise, find name & write 1/3, ¼, 2/4, ¾ Recognise equivalence of simple fractions	Count up/down in tenths. Compare & order fractions with same denominator. +/- Fractions with same denominator within one whole.	Count up/down in hundredths. Recognise & write equivalent fractions. +/- fractions with same denominator	Recognise & use thousandths. Recognise mixed numbers & improper fractions & convert from one to another. Multiply proper fractions & mixed numbers by whole numbers Identify and write equivalent fractions	Add & subtract fractions with different denominations & 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
Time	Understand time words: today, tomorrow, yesterday. Use everyday language to talk about time to compare and solve problems	Sequence events in chronological order. Use language of day, week, month & year. Tell time to hour & half past	Tell time to five minutes, including quarter past/to	Tell time using 12 and 24 hour clocks and using Roman numerals. Tell time to nearest minute Know number of days in each month & number of seconds in a minute	Read, write & convert time between analogue & digital 12 7 24 hour clocks	Solve time problems using timetables & converting between different units of time.	