



Number Knowledge: Yearly Overview

	Addition	Subtraction	Multiplication	Division
YR	<ul style="list-style-type: none"> Perceptually subitise to 10 Conceptually subitise to 5 Find the total number of items in two groups, up to a total of 10 (<i>combine and subitise, count all (aggregation), use known facts</i>) 1 more to 10 Add zero, within numbers to 10 	<ul style="list-style-type: none"> 1 less to 10 Remove from a small group and find how many are left, up to a total of 10 (<i>take away and subitise, take away and count how many are left, use known facts</i>) Subtract zero to 10 		
Year 1	<ul style="list-style-type: none"> Subitising 1-5 Recognizing numbers on tens frames Add 1-digit to tens Add 1-digit to teens Number Bonds to 10 Bridging 10 single digits Near doubles to 5, e.g. 3+2 	<ul style="list-style-type: none"> Subtract pairs of 1-digit numbers Subtraction facts to 10 Bridging 10 by single digit subtraction Subtract 1-digit from teens Subtract 1-digit from ten 	<ul style="list-style-type: none"> Double numbers to 5 Count forwards and backwards in 2s, 5s and 10s 	<ul style="list-style-type: none"> Halve even numbers to 10
Year 2	<ul style="list-style-type: none"> Bridging 10 (TU + U) 1-digit to a multiple of ten (e.g. 60 + 5) Add multiples of 10 to a 2-digit number (e.g. 27 + 60) Add three 1-digit numbers Number Bonds to 20 Number Bonds to 100 in 10s Add 10 to 2-digit numbers using place value Add 11 by adding 10 add 1 Add 9 by add 10 take 1 Near doubles to 10, e.g. 6+5 	<ul style="list-style-type: none"> Subtract 10 from a 2-digit number using place value Bridging any 2-digit 10 by single digit subtraction Subtract 1-digit from multiple of 10 Subtraction facts to 20 Subtraction facts to 100 in 10s Subtract 11 by subtracting 10 then 1 Subtract 9 by subtracting 10 and adding 1 	<ul style="list-style-type: none"> Double numbers to 10 Double any multiple of 10 up to 50 Recognize odd and even Rapid recall of x2, 10, 5 as a minimum 	<ul style="list-style-type: none"> Halve even numbers to 20 Halve any multiple of 10 with an even tens digit up to 100 Rapid recall of division facts for x2, 10, 5 as a minimum
Year 3	<ul style="list-style-type: none"> Add 100 to any 3-digit number using place value Bridging to 3-digit Add pairs of multiples of 10 up to 2-digit using bonds 2-digit Near Doubles (teens and tens, e.g. 14 + 13, 30 + 20) 2-digit near 10s round up (e.g. 27 + 19/21) Add any 2-digit numbers using partitioning Add any 2-digit numbers using counting on 	<ul style="list-style-type: none"> Subtract 100 from any 3-digit number using place value Bridging HTU by U subtraction Subtract a 2-digit number from a multiple of 10 Subtract pairs of multiples of 10 up to 2-digit using bonds Subtract near multiples of 10 rounding up Subtract pairs of 2-digit using partitioning Subtract pairs of 2-digit using counting on 	<ul style="list-style-type: none"> Double any multiple of 10 up to 100 Find 4 of a number by doubling and doubling again Rapid recall of x3, 4, 8 as a minimum Multiply any 2-digit number by 10 Multiply TU x U using partitioning Use place value and known facts to TU x U, e.g. 80 x 3 	<ul style="list-style-type: none"> Halve any multiple of 10 up to 100 Find a quarter by halving and halving again Rapid recall of division facts for x3, 4, 8 as a minimum Identify the remainder when dividing TU by 2, 10, 5 Divide any 3-digit multiple of 10 by 10 Use place value and known facts to HTU ÷ U, e.g. 400 ÷ 8

Year 4	<ul style="list-style-type: none"> Add 1000 to any 4-digit number using place value Bridging up to 4-digit Add pairs of multiples of 10 up to 3-digit using bonds 2-digit Near Doubles to 50, e.g. $36 + 37$ 2-digit near 10s round up & down (e.g. $27 + 19/21$) Add any 3-digit numbers using partitioning Add any 3-digit numbers using counting on 	<ul style="list-style-type: none"> Subtract 1000 from any 4-digit number using place value Bridging THU by U subtraction Subtract pairs of multiples of 10 up to 3-digit using bonds Subtract near multiples of 10 rounding up and down Subtract any 3-digit numbers using partitioning Subtract any 3-digit numbers using counting on 	<ul style="list-style-type: none"> Double any 2-digit number Double any multiple of 100 Rapid recall of all tables to 12×12 Multiply three 1-digit numbers Multiply any number to 100 by $10/100$ Multiply HTU x U using partitioning Use place value and known facts to HTU x U, e.g. 400×3 	<ul style="list-style-type: none"> Halve any even number to 100 Rapid recall of all division facts for tables to 12×12 Identify the remainder when dividing HTU by 2, 10, 5 Divide any number to 1000 by $10/100$ Use place value and known facts to THU \div U, e.g. $1200 \div 3$
Year 5	<ul style="list-style-type: none"> Use place value to add powers of 10 to 1,000,000 Bridging (U.t + .t) 2-digit Near Doubles to 100, e.g. $76 + 77$ Add near hundreds (e.g. $427 + 198$) Add any U.t pairs (e.g. $3.5 + 2.8$) using partitioning Add any U.t pairs (e.g. $3.5 + 2.8$) using counting on Add pairs of multiples of U.t by making $\times 10$ larger 	<ul style="list-style-type: none"> Use place value to subtract powers of 10 up to 1,000,000 Bridging U.t by U subtraction Subtract near hundreds (e.g. $427 - 198$) subtract any U.t pairs (e.g. $3.5 - 2.2$) using partitioning subtract any U.t pairs (e.g. $3.5 - 2.7$) using counting on Subtract pairs of multiples of U.t by making $\times 10$ larger 	<ul style="list-style-type: none"> Double 3-digit multiples of 10 Double U.t Multiply whole numbers by 10, 100, 1000 Multiply U.t using partitioning Use place value and known facts to THU x U, e.g. 8000×3 Multiply pairs of multiples of 10 with same place value, e.g. 400×300 Multiply by 50 by multiplying by 100 and halving Multiply by 25 by multiplying by 100 and halving and halving again Multiply by 20 by multiplying by 10 and doubling Multiply by 5 by multiplying by 10 and halving 	<ul style="list-style-type: none"> Halve 3-digit multiples of 10 Halve any whole number Find the remainder when dividing TU by any single digit Divide whole numbers by 10, 100, 1000 Use place value and known facts to TTHU \div U, e.g. $64000 \div 8$ Multiply pairs of multiples of 10 with same place value, e.g. $800 \div 200$
Year 6	<ul style="list-style-type: none"> Use place value to add powers of 10 to any number Bridging (U.th + .th) Near doubles to tenths (e.g. $1.7 + 1.6$) Near tens to tenths (e.g. $4.2 + 1.9$) Add any U.th pairs (e.g. $3.52 + 2.87$) using partitioning Add any U.th pairs (e.g. $3.52 + 2.87$) counting on 	<ul style="list-style-type: none"> Use place value to subtract powers of 10 from any number Subtract using near tens to tenths, e.g. $4.6 - 1.9$ Subtract any U.th pairs (e.g. $3.52 - 2.31$) using partitioning Subtract any U.th pairs (e.g. $3.52 - 2.31$) using counting on 	<ul style="list-style-type: none"> Double any number including to 2dp Multiply whole numbers and decimals by 10, 100, 1000 Multiply U.th x U using partitioning Use place value and known facts for decimals, e.g. 0.3×4 Multiply pairs of multiples of 10 with differing place value, e.g. 4000×30 	<ul style="list-style-type: none"> Halve any number including 2dp Divide whole numbers and decimals by 10, 100, 1000 Use place value and known facts for decimals, e.g. $3.2 \div 8$ Divide pairs of multiples of 10 with differing place value, e.g. $8000 \div 200$ Divide by 50 by dividing by 100 and doubling Divide by 25 by dividing by 100 and doubling and doubling again Divide by 20 by dividing by 10 and halving Divide by 5 by dividing by 10 and doubling

Multiplication Tables

Tables Expectations					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Counting in steps of, 2, 10, 5	x2, x10, x5 after Christmas	x2, x10 x5, x3, x6, x4, x8	x7, x9, x11, x12	All tables revision	All tables revision

Weekly Taught Session: 1 hour taught session once per week for Years 2, 3 and 4			
Daily Revisit Session: representation sheet 5 minutes after memory jogger in Y3 and Y4			
Day 1	Day 2	Day 3	Day 4
Repeated Addition Lesson	0 x and 1 x	2 x	10 x
Day 5	Day 6	Day 7	Day 8
5 x	Deriving Lesson Mini-Test on 0,1,2,10, 5 x	4 x	8 x
Day 9	Day 10	Day 11	Day 12
3 x	6 x	Commutative Law Lesson Mini-Test on 4,8,3,6 x	9 x
Day 13	Day 14	Day 15	Day 16
7 x	11 x	12 x	Distributive Law Lesson Mini-Test on all

Rehearsal

Weekly homework and testing on their table with wristbands

Within taught one-hour session in Years 2, 3 and 4 the last twenty minutes is use of WR One-Minute App for the table taught