Marton Manor Primary School

Maths Curriculum

Mental Maths

The answer is only the beginning.

Mental Maths

	Addition	Subtraction	Multiplication	Division
YR	• Perceptually subitise to 10 • Conceptually subitise to 5 • Find the total number of items in two groups, up to a total of 10 *(combine and subitise, count all (aggregation), use known facts)* • 1 more to 10 • Add zero, within numbers to 10	• 1 less to 10 • Remove from a small group and find how many are left, up to a total of 10 *(take away and subitise, take away and count how many are left, use known facts)* • Subtract zero to 10	• Doubles to 5	
Year 1	• 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	• Subtract pairs of 1-digit numbers • Subtraction facts to 10 • Bridging 10 by single digit subtraction • Subtract1-digit from teens • Subtract1-digit from ten •	• Double numbers to 5 • Count forwards and backwards in 2s, 5s and 10s	• Halve even numbers to 10
Year 2	• 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	• Subtract 10 from a 2-digit number using place value • Bridging any 2-digit10 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	• 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	• 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	• 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	• 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	• 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	• 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

Mental Maths

Year 4

- 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

- Subtract 1000 from any 4-digit number using place value
- Bridging THTU 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

- Double any 2-digit number
- Double any multiple of 100
- Rapid recall of all tables to 12x12
- 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 x 3

- Halve any even number to 100
- Rapid recall of all division facts for tables to 12x12
- 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 THTU ÷ U, e.g. 1200 ÷ 3

Year 5

- 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 x10 larger

- 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 x10 larger

- 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 THTU x U, e.g. 8000 x 3
- Multiply pairs of multiples of 10 with same place value ,e.g. 400 x 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

- 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 TTHTU ÷ U, e.g. 64000 ÷ 8
- Multiply pairs of multiples of 10 with same place value, e.g. 800 ÷ 200

Year 6

- 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

- 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

- 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 x 4
- Multiply pairs of multiples of 10 with differing place value ,e.g. 4000 x 30

- 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 ÷ 8
- Divide pairs of multiples of 10 with differing place value, e.g. 8000 ÷ 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 diving by 10 and doubling