Muscle Maths   (Key Instant Recall Facts)

Card 1 **Place Value**	Say the number names in order to 5.	Know all the number bonds to 5.	Know all number bonds to 20.	Know all number bonds for each number to 20.	Know all number bonds to 100.	Know all decimals that total 1 or 10 (1 decimal place)	Know all previous number bonds including decimals.	Know the 2 place decimal complements to 1
Card 2 **Multiplication and Division**	Begin to know the days of the week.	Know the days of the week and the seasons and months of the year.	Know multiplication and division facts for 2x table.	Know multiplication and division facts for 5x and 10x tables.	Know multiplication and division facts for the 6x and 9x tables.	Consolidate multiplication and division facts for all times tables.	Use all multiplication and division facts for the times tables up to 10x10, to derive x and ÷ of decimals numbers	Use place value & all multiplication & division facts for the times tables up to 10x10, to derive x and ÷ of small multiples of 10 and 100 (e.g. 30 x 900; 8100 ÷ 9
Card 3 **Number Bonds and Multiplication**	Say the numbers in order to 10.	Know all number bonds to 10.	Know multiplication and division facts for 10x table.	Know multiplication and division facts for 3x and 4x table.	Know all 2-digit pairs that total 100 Multiply and divide by 10 and 100	Know the doubles and halves of all two-digit numbers	Know doubles and halves of 2-digit decimals.	Know the prime numbers within 50
Card 4 **Doubles and Halves**	Be able to partition numbers to 5 into two groups.	Know all doubles and halves to 10.	Know the doubles and halves of all numbers to 20.	Know doubles and halves of: All whole numbers to 20 All multiples of 10 to 200	Know doubles and halves of: All whole numbers to 50 All multiples of 5 to 1000	Know doubles and halves of: All multiples of 10 to 1000 All multiples of 100 to 10,000.	Know the doubles and halves of all multiples of 10 to 10000.	Know the doubles and halves of all multiples of 1000 to 100000
Card 5 **Addition and Subtraction and Multiplication and Division**	Count in 10s.	Know all addition and subtraction facts for all numbers between 0 and 10.	Know all addition and subtraction facts for multiples of 10 to 100.	Know all addition and subtraction facts for: Multiples of 5 with a total of 100	Know all multiplication and division facts for 7x table	Know all pairs of factors of numbers up to 100.	Know square numbers and square roots up to 12x12 Know prime numbers	Know the decimal and percentage equivalents of the fractions ½, ¼, ¾, ⅓, ⅔, tenths and fifths
Card 6 **Multiplication, Division and Consollidation**	Count in 2s.	Count forward and backward in steps of 2, 5 and 10.	Know multiplication and division facts for 5x tables.	Know all multiplication and division facts for 8x table.	Recognise decimal equivalent fractions of decimals.	Consolidate previous work.	Consolidate previous work.	Know the square roots of square numbers to 15 x 15