

# Ferndale Community Primary & Nursery School

## Progression in Mental maths

YEAR GROUP	Number Bonds and addition subtraction facts	Doubles and Halves facts	Times Tables (x and division facts)	Counting	Partitioning / place value	Adding	Other
Nursery				Say numbers in order from 0 - 10			
Reception				Recognise and say numbers to 20 and order  Count on and back in 1s from 0 to 20			
Year 1	Recall number bonds and addition and subtraction facts to 20  Given a number, identify one more and one less	Double and halve to 20 (double 10 and half of 20)	Begin to count in multiples of 2, 5 and 10	Count on and back in 1s from 0 to 100 from any given number		Add and subtract within 20	Time to the hour and half past the hour and days/ weeks, months
Year 2	Recall and use addition and subtraction facts to 20  Derive and use related facts up to 100 E.g. $3+7 = 10$ so 30 add 70 - 100	Doubles and halves to 50 (double 25 and half of 50) linked to $\times 2$	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication	Count in multiples of 2, 3 and 5  Count on and back in 10s from any given number  Compensating for 8 or 9 – adding 10 and subtracting one or two	Recognise the place value of each digit in a 2 digit number Partition 2 digit numbers in different ways e.g. $23 = 20 + 3 = 10 + 13$	Add and subtract 2 digit number by one digit by counting back and counting on	Compare and order numbers from 0 – 100  Recognise odd and even numbers  Recognise Time – quarter past and to and half past the hour

# Ferndale Community Primary & Nursery School

## Progression in Mental maths

						Add three single digit numbers	
Year 3	<p>Recall addition and subtraction bonds to 50 (to support money problems)</p> <p>Addition and subtraction of multiples of 10, 100 and 1000</p>	Doubles and halves to 100	<p>Recall and use multiplication and division facts for 3,4 and 8 multiplication tables</p> <p>Use commutative law and associative laws to support mental methods</p> <p>X and divide by 10</p>	<p>Count in multiples of 3, 4, 8, 50 and 100 from 0</p> <p>Given a number, identify 10 or 100 more or less</p> <p>Compensating for 8 or 9 – adding 10 and subtracting one or two</p>	<p>Recognise the place value of each digit in a three digit number</p> <p>Partition 3 digit numbers in different ways</p>	Add and subtract 3 digit number by ones, tens and 100s	<p>Compare and order numbers to 1000</p> <p>Understand inverse operations</p> <p>Recognise time</p>
Year 4	<p>Recall addition and subtraction bonds 100 / 500 (to support real life money problems)</p> <p>Addition and subtraction of multiples of 10, 100 and 1000</p>	Doubles and halves to 1000	<p>Recall and use multiplication and division facts for multiplication tables up to 12x12</p> <p>Multiply and divide one and two digit numbers by 10 and 100</p> <p>Know multiplication facts (<math>4 \times 6 = 24</math>, <math>40 \times 6 = 240</math>, <math>400 \times 6 = 2400</math>, <math>2400 / 6 = 400</math>, <math>2400 / 60 = 4</math>)</p>	<p>Count in multiples of 6, 7, 9, 11, 12, 25, and 1000</p> <p>Given a number, identify, 10, 100 and 1000 more or less</p> <p>Count backwards through zero to include negative numbers</p>	<p>Recognise the place value of each digit in a four digit number</p>	Add and subtract 4 digit number by ones, tens, hundreds and thousands	<p>Compare and order numbers beyond 1000</p> <p>Understand inverse operations</p> <p>Recognise time</p>

# Ferndale Community Primary & Nursery School

## Progression in Mental maths

Year 5	Addition and subtraction facts to 1 with two decimal places	Doubles and halves for any given number	Multiply and divide numbers mentally by drawing on known facts	Count forwards and backwards in steps of 10, 100, 1000 for any given number up to 1 million	Recognise the value of each digit in 6 digit number up.	Add and subtract numbers mentally with increasingly larger numbers.	Compare and order numbers beyond 1000
Year 6	Addition and subtraction of multiples of 10, 100 and 1000		X and divide whole numbers and decimals by 10, 100 and 1000	Count forwards and backwards with positive and negative whole numbers, including through zero	Identify the value of each digit to 2 decimal places		Understand inverse operations
	Square numbers up to 12 , cube numbers 2,3, 4 and 5 prime numbers		Perform mental calculations including with mixed operations and large numbers		Identify the value of each digit to 3 decimal places		Recognise time on 24hr clock
			Use multiplication and division facts for solving percentage, decimal and fraction calculations				