

## Meath Green Junior School- Whole School Progression in Maths- Number and Place Value

### Our Intent:

Maths at Meath Green Junior School is a subject that sparks curiosity, provides challenge and results in enjoyment through the children's processes and successes. We aim for the stigma of maths to be eradicated and replaced with children who are brave and resilient within their approaches to mathematical concepts, representations and problems. Our approaches ensure that children are actively involved in their learning and are passionate about their knowledge and achievements.

Developing knowledge

Year 3

Year 4

Year 5

Year 6

## Number and Place Value

### Counting

Count to and across 100, forward and backwards, beginning with 0 or 1, or from any given number				
Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward	Count from 0 in multiples of 4, 8, 50 and 100;	Count in multiples of 6, 7, 9, 25 and 1000	Count forwards or backwards in steps of powers of 10 for any given number up to 1000 000	
Identify one more and one less of a given number	Find 10 or 100 more or less than a given number	Find 1000 more or less than a given number		
		Count backwards through zero to include negative numbers	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	Use negative numbers in context, and calculate intervals across zero

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**Identifying, representing and estimating numbers**

Identify, represent and estimate numbers to 100 using different representations including the number line, tally, dienes, Numicon, visuals	Identify, represent and estimate numbers using different representations- Year 3 including a number line	Identify, represent and estimate numbers using different representations- Year 3 including a number line	Recognise and use square and cubed numbers and the notation for squared (2) and cubed (3)	
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**Read and writing numbers (Representing number)**

Read and write numbers from 1 to 20 in numerals and words  read and write numbers to at least 100 in numerals and in words	read and write numbers up to 1000 in numerals and in words		read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit
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**Reading and writing Roman Numerals**

	Tell and write the time from an analogue clock, including using roman numerals from I to XII and 12- hour and 24 hour clocks (Measurement NC Objective)	read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.	read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	
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**Understanding Place Value**

Recognise the place value in numbers to 20	recognise the place value of each digit in a three-	recognise the place value of each digit in a four-	read, write, order and compare numbers to at	read, write, order and compare numbers up to
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<p>Recognise the place value in numbers to 100</p> <p>recognise the place value of each digit in a two-digit number (tens, ones)</p>	<p>digit number (hundreds, tens, and ones)</p>	<p>digit number (thousands, hundreds, tens, and ones)</p> <p>find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths (Fractions NC Objective)</p>	<p>least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)</p> <p>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents (Fractions NC Objective)</p>	<p>10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)</p> <p>identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places (Fractions NC Objective)</p>
<p><b>Comparing Numbers- Place value</b></p>				
<p>Use the language of: equal to, more than, less than (fewer), most, least</p> <p>Compare and order numbers to 20</p> <p>compare and order numbers from 0 up to 100; use &lt; &gt; and = signs</p>	<p>Compare and order numbers <u>up to</u> 1000</p>	<p>Compare and order numbers <u>beyond</u> 1000</p>	<p>read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</p>	<p>read, write, order and compare numbers up to 10 000 000 and determine the value of each digit</p>

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**Rounding- place value**

		round any number to the nearest 10, 100 or 1 000	round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000	round any whole number to a required degree of accuracy
		round decimals with one decimal place to the nearest whole number (Fractions NC Objective)	round decimals with two decimal places to the nearest whole number and to one decimal place (Fractions NC Objective)	solve problems which require answers to be rounded to specified degrees of accuracy (Fractions NC Objective)