## Parent's Guide to Supporting Maths in the National Curriculum. Reception.

The National Curriculum is significantly more challenging than before. The children will need to develop a very sound understanding of their maths to be able to meet these challenges. These need to be taught in an "age appropriate" manner which allow the children to use a series of representations and resources that will be suitable for a developing 4-5 year old brain.

Below you will find an overview of the types of calculating your child will be expected to do in Reception. We have included the types of representations we use with them. In line with the National Curriculum Aims we use these to develop **an understanding** of the concept to build a really firm foundation in calculations and therefore **do not** teach the children a procedure to follow to "do a sum" as this has been shown to have no long term benefit. Some children will prefer some representations more than others and may not use all of them. They all will progress at different rates. Practical handling of resources is essential to aid secure understanding ready for this more demanding curriculum.

40-60 months	Early Learning Goal
Children in Reception will be learning to:	ELG: Number
Count objects, actions and sounds.	Children at the expected level of development will:
Subitise.	- Have a deep understanding of number to 10, including the composition of each
Link the number symbol (numeral) with its cardinal number value.	number;
Count beyond ten.	- Subitise (recognise quantities without counting) up to 5;
Compare numbers.	- Automatically recall (without reference to rhymes, counting or other aids) number
Understand the 'one more than/one less than' relationship between consecutive	bonds up to 5 (including subtraction facts) and some number bonds to 10, including
numbers.	double facts.
Explore the composition of numbers to 10.	ELG: Numerical Patterns
Automatically recall number bonds for numbers 0–10.	Children at the expected level of development will:
Select, rotate and manipulate shapes in order to develop spatial reasoning skills.	- Verbally count beyond 20, recognising the pattern of the counting system;
Compose and decompose shapes so that children recognise a shape can have other	- Compare quantities up to 10 in different contexts, recognising when one quantity is
shapes within it, just as numbers can.	greater than, less than or the same as the other quantity;
Continue, copy and create repeating patterns.	- Explore and represent patterns within numbers up to 10, including evens and odds,
Compare length, weight and capacity.	double facts and how quantities can be distributed equally.

Place Value



We use lots of different objects for counting. We count accurately by touching or moving each object physically.



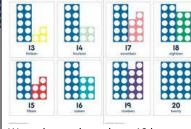
We use number lines to help us count and connect the number name we are

## Representations we use for Counting.

We put counters into the holes on a tens frame so we can compare numbers easily and see that 6 is made up of 5 and 1 more.



We can put our fingers in the holes in each Numicon piece to count the number. We soon learn what number each colour represents and use these to make numbers.



We make numbers above 10 by starting with the blue 10 Numicon.

