

Number: Number and Place Value with Reasoning

Nursery	Reception	Year 1	Year 2	Year 3
COUNTING				
Counting <ul style="list-style-type: none"> May enjoy counting verbally as far as they can go Points or touches (tags) each item, saying one number for each item, using the stable order of 1,2,3,4,5. 	Counting <ul style="list-style-type: none"> Enjoys reciting numbers from 0 to 10 (and beyond) and back from 10 to 0 	count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number		
<ul style="list-style-type: none"> Uses some number names and number language within play, and may show fascination with large numbers 	<ul style="list-style-type: none"> Increasingly confident at putting numerals in order 0 to 10 (ordinality) 	count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens	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;
Counting Begin to recognise numerals 0 to 10 Composition Beginning to recognise that each counting number is one more than the one before	Composition <ul style="list-style-type: none"> In practical activities, adds one and subtracts one with numbers to 10 	given a number, identify one more and one less		find 10 or 100 more or less than a given number
COMPARING NUMBERS				

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<p>Comparison</p> <ul style="list-style-type: none"> Compares two small groups of up to five objects, saying when there are the same number of objects in each group, e.g. <i>You've got two, I've got two. Same!</i> 	<p>Comparison</p> <ul style="list-style-type: none"> Uses number names and symbols when comparing numbers, showing interest in large numbers Estimates of numbers of things, showing understanding of relative size 	<p>use the language of: equal to, more than, less than (fewer), most, least</p>	<p>compare and order numbers from 0 up to 100; use <, > and = signs</p>	<p>compare and order numbers up to 1000</p>
		<p>Do, then explain Look at the objects. (in a collection). Are there more of one type than another? How can you find out?</p>	<p>Do, then explain 37 13 73 33 3 If you wrote these numbers in order starting with the smallest, which number would be third? Explain how you ordered the numbers.</p>	<p>Do, then explain 835 535 538 388 508 If you wrote these numbers in order starting with the smallest, which number would be third? Explain how you ordered the numbers.</p>
<p>IDENTIFYING, REPRESENTING AND ESTIMATING NUMBERS</p>				
<p>Cardinality</p> <ul style="list-style-type: none"> Subitises one, two and three objects (without counting) Counts up to five items, recognising that the last number said represents the total counted so far (cardinal principle) Links numerals with amounts up to 5 and maybe beyond Explores using a range of their own marks and signs to which they ascribe mathematical meanings 	<p>Cardinality</p> <ul style="list-style-type: none"> Engages in subitising numbers to four and maybe five Counts out up to 10 objects from a larger group. Matches the numeral with a group of items to show how many there are (up to 10) 	<p>identify and represent numbers using objects and pictorial representations including the number line</p>	<p>identify, represent and estimate numbers using different representations, including the number line</p>	<p>identify, represent and estimate numbers using different representations</p>

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UNDERSTANDING PLACE VALUE				
			recognise the place value of each digit in a two-digit number (tens, ones)	recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
			Do, then explain Show the value of the digit 2 in these numbers? 32 27 92 Explain how you know. Make up an example Create numbers where the units digit is one less than the tens digit. What is the largest/smallest number?	Do, then explain Show the value of the digit 3 in these numbers? 341 503 937 Explain how you know. Make up an example Create numbers where the digit sum is three. Eg 120, 300, 210 What is the largest/smallest number?
PROBLEM SOLVING				
			use place value and number facts to solve problems	solve number problems and practical problems involving these ideas.