



Number: Number and Place Value

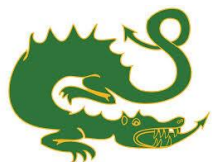
Counting					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.	Count in tens from any number, forward or backward		Count backwards through zero to include negative numbers.	Count forwards and backwards with positive and negative whole numbers, including through zero.	Use negative numbers in context, and calculate intervals across zero.
In numerals, count in multiples of twos, fives and tens	Count in steps of 2, 3, and 5 from 0.	Count from 0 in multiples of 4, 8, 50 and 100.	Count in multiples of 6, 7, 9, 11, 12, 25 and 1000.	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.	
Given a number, identify one more and one less		Find 10 or 100 more or less than a given number.	Find 1 000 more or less than a given number.		
Spot the mistake: 5,6,8,9 What is wrong with this sequence of numbers? True or False? <i>I start at 2 and count in twos. I will say 9.</i>	Spot the mistake: 45,40,35,25 What is wrong with this sequence of numbers? True or False? <i>I start at 3 and count in threes. I will say 13.</i>	Spot the mistake: 50,100,115,200 What is wrong with this sequence of numbers? True or False? <i>38 is a multiple of 8?</i>	Spot the mistake: 950, 975, 1000,1250 What is wrong with this sequence of numbers? True or False?	Spot the mistake: 177000,187000,197000,217000 What is wrong with this sequence of numbers? True or False? <i>When I count in 10s, I will say the number 10100.</i> What comes next?	Spot the mistake: -80,-40, 10,50 What is wrong with this sequence of numbers? True or False? <i>When I count backwards in 50s</i>



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<p>What comes next? $10+1 = 11$ $11+1 = 12$ $12+1 = 13$</p>	<p>What comes next? $41+5=46$ $46+5=51$ $51+5=56$ </p>	<p>What comes next? $936-10= 926$ $926 -10 = 916$ $916- 10= 906$ </p>	<p><i>324 is a multiple of 9?</i></p> <p>What comes next? $6706+ 1000= 7706$ $7706 + 1000 = 8706$ $8706 + 1000 = 9706$ </p>	<p>$646000-10000= 636000$ $636000 -10000 = 626000$ $626000- 10000 = 616000$ </p>	<p><i>from 10 I will say -200.</i></p> <p>True or False?</p> <p>The temperature is -3. It gets 2 degrees warmer. The new temperature is -5?</p>
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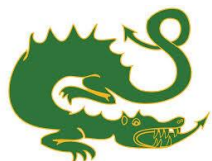
Comparing Numbers					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Use the language of: equal to, more than, less than (fewer), most, least.	Compare and order numbers from 0 up to 100; use <, > and = signs	Compare and order numbers up to 1 000.	Order and compare numbers beyond 1 000.	Read, write, order 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.
Identify one more or one less than any given number.	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)	Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones)		



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			Find 1000 more of less than a given number.		
<p>Do, then explain Look at the objects. 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>Do, then explain 5035 5053 5350 5530 5503 If you wrote these numbers in order starting with the largest, which number would be third? Explain how you ordered the numbers.</p>	<p>Do, then explain 747014 774014 747017 774077 744444 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 Find out the populations in five countries. Order the populations starting with the largest. Explain how you ordered the countries and their populations.</p>

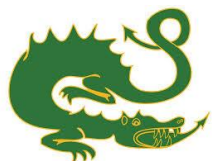
Rounding					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Round any number to the nearest 10, 100 or 1 000	Round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000	Round any whole number to a required degree of accuracy
			Round decimals with one decimal place to the nearest whole number.	Round decimals with two decimal places to the nearest whole number and to one decimal place	



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			<p>Possible answers A number rounded to the nearest ten is 540. What is the smallest possible number it could be?</p> <p>What do you notice? Round 296 to the nearest 10. Round it to the nearest 100. What do you notice? Can you suggest other numbers like this?</p>	<p>Possible answers A number rounded to the nearest thousand is 76000. What is the largest possible number it could be?</p> <p>What do you notice? Round 343997 to the nearest 1000. Round it to the nearest 10000. What do you notice? Can you suggest other numbers like this?</p>	<p>Possible answers Two numbers each with two decimal places round to 23.1 to one decimal place. The total of the numbers is 46.2. What could the numbers be?</p> <p>What do you notice? Give an example of a six digit number which rounds to the same number when rounded to the nearest 10000 and 100000</p>
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Understanding Place Value					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Identify and represent numbers using objects and pictorial representations.	Identify, represent and estimate numbers using different representations,	Identify, represent and estimate numbers using different representations	Identify, represent and estimate numbers using different representations.	Read, write, order and compare numbers to at least 1 000 000 (in numerals and words) and determine the value of each digit.	Read, write, order and compare numbers up to 10 000 000 (in numerals and words) and



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	including the number line.				determine the value of each digit.
Read and write numbers to 100 in numerals.	Read and write numbers to at least 100 in numerals and words.	Read and write numbers up to 1000 in numerals and in words.	Read and write numbers up to 1000 in numerals and words.	Read Roman numerals to 1000 and recognise years written in Roman numerals.	
Read and write numbers to 20 in numerals and words.			To read and write roman numerals.		
	<p>Do, then explain Show the value of the digit 2 in these numbers? 32 27 92 Explain how you know.</p> <p>Make up an example Create numbers where the units digit is one less than the tens digit. What is the largest/smallest number?</p>	<p>Do, then explain Show the value of the digit 3 in these numbers? 341 503 937 Explain how you know.</p> <p>Make up an example Create numbers where the digit sum is three. Eg 120, 300, 210 What is the largest/smallest number?</p>	<p>Do, then explain Show the value of the digit 4 in these numbers? 3041 4321 5497 Explain how you know.</p> <p>Make up an example Create four digit numbers where the digit sum is four and the tens digit is one. Eg 1210, 2110, 3010 What is the largest/smallest number?</p>	<p>Do, then explain Show the value of the digit 5 in these numbers? 350114 567432 985376 Explain how you know.</p> <p>Make up an example Create six digit numbers where the digit sum is five and the thousands digit is two. Eg 3002000 2102000 What is the largest/smallest number?</p>	<p>Do, then explain Show the value of the digit 6 in these numbers? 6787555 95467754 Explain how you know.</p> <p>Make up an example Create seven digit numbers where the digit sum is six and the tens of thousands digit is two. Eg 4020000</p>



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					What is the largest/smallest number?
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Problem Solving					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Use place value and number facts to solve problems.	Solve number problems and practical problems involving these ideas.	Solve number and practical problems that involve all of the above and with increasingly large positive numbers.	Solve number problems and practical problems that involve all of the above.	Solve number and practical problems that involve all of the above.



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Vocabulary					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
numeral digit more less most least compare tens ones partition number square number line	odd even hundreds value order two digit number three digit number represents nearest < and >	roman numerals decimal Numbers to thousand + one hundred more one hundred less approximately place holder estimate near double tenths hundredths sort group	positive negative ten thousands hundred thousands one thousand more one thousand less round up round down round to the nearest ... 10... 100... 1000 consecutive	ascending order descending order round to the nearest 10,000 and 100,000 approximation square/d number cube/d number composite number integer million	Factorise recurring numbers to ten million +