

+COUNTING						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
count to and across 100,			count backwards through	interpret negative numbers in	use negative numbers in	
forwards and backwards,			zero to include negative	context, count forwards and	context, and calculate	
beginning with 0 or 1, or			numbers	backwards with positive and	intervals across zero	
from any given number				negative whole numbers,		
				including through zero		
count, read and write	count in steps of 2, 3, and	count from 0 in multiples	count in multiples of 6, 7,	count forwards or backwards in		
numbers to 100 in	5 from 0, and in tens	of 4, 8, 50 and 100;	9, 25 and 1000	steps of powers of 10 for any		
numerals; count in	from any number,			given number up to 1000 000		
multiples of twos, fives	forward or backward					
and tens						
given a number, identify		find 10 or 100 more or	find 1000 more or less			
one more and one less		less than a given number	than a given number			
Spot the mistake:	Spot the mistake:	Spot the mistake:	Spot the mistake:	Spot the mistake:	Spot the mistake:	
5,6,8,9	45,40,35,25	50,100,115,200	950, 975,1000,1250	177000,187000,197000,217000	-80,-40,10,50	
What is wrong with this	What is wrong with this	What is wrong with this	What is wrong with this	What is wrong with this	What is wrong with this	
sequence of numbers?	sequence of numbers?	sequence of numbers?	sequence of numbers?	sequence of numbers?	sequence of numbers?	
True or False?	True or False?	True or False?	True or False?	True or False?	True or False?	
I start at 2 and count in	I start at 3 and count in	38 is a multiple of 8?	324 is a multiple of 9?	When I count in 10's I will say	When I count backwards	
twos. I will say 9	threes. I will say 13?	·	·	the number 10100?	in 50s from 10 I will say	
•	,	What comes next?	What comes next?		-200	
What comes next?	What comes next?	936-10= 926	6706+ 1000= 7706	What comes next?		
10+1 = 11	41+5=46	926 -10 = 916	7706 + 1000 = 8706	646000-10000= 636000	True or False?	
11+1= 12	46+5=51	916- 10= 906	8706 + 1000 = 9706	636000 –10000 = 626000	The temperature is -3. It	
12+1 = 13	51+5=56			626000- 10000 = 616000	gets 2 degrees warmer.	
					The new temperature is -	
					5?	



COMPARING NUMBERS							
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 1000	order and compare numbers beyond 1000	read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing		
					Numbers)		
			compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)		,		
Do, then explain	Do, then explain	Do, then explain	Do, then explain	Do, then explain	Do, then explain		
Look at the objects. (in a	37 13 73 33 3	835 535 538 388 508	5035 5053 5350 5530	747014 774014 747017	Find out the populations		
collection). Are there	If you wrote these	If you wrote these	5503	774077 744444	in five countries.		
more of one type than another?	numbers in order starting with the smallest, which	numbers in order starting with the smallest, which	If you wrote these numbers in order starting	If you wrote these numbers in order starting with the	Order the populations starting with the largest.		
How can you find out?	number would be third?	number would be third?	with the largest, which	smallest, which number would	Explain how you ordered		
now can you mid out:	Explain how you ordered	Explain how you ordered	number would be third?	be third?	the countries and their		
	the numbers.	the numbers.	Explain how you ordered	Explain how you ordered the	populations.		
			the numbers.	numbers.			
	IDENTIFYING, REPRESENTING AND ESTIMATING NUMBERS						
identify and represent	identify, represent and	identify, represent and	identify, represent and				
numbers using objects	estimate numbers using	estimate numbers using	estimate numbers using				
and pictorial	different	different representations	different representations				
representations including	representations,						
the number line	including the number line						



READING AND WRITING NUMBERS (including Roman Numerals					
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  tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24- hour clocks (copied from Measurement)	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, write, order and compare numbers to at least 1000000 and determine the value of each digit (appears also in Comparing Numbers) read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value)
		UNDERSTANDIN	NG 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)	recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)  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	read, write, order and compare numbers to at least 1000000 and determine the value of each digit (appears also in Reading and Writing Numbers)  recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers) 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
	Do, then explain	Do, then explain	(copied from Fractions) <b>Do, then explain</b>	(copied from Fractions) <b>Do, then explain</b>	(copied from Fractions) <b>Do, then explain</b>
	Show the value of the	Show the3 value of the	Show the value of the	Show the value of the	Show the value of the
	digit 2 in these numbers?	digit 3 in these numbers?	digit 4 in these numbers?	digit 5 in these numbers?	digit 6 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?	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?	3041 4321 5497 Explain how you know.  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?	350114 567432 985376 Explain how you know.  Make up an example Give further examples 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?	6787555 95467754 Expalin how you know.  Make up an example Create seven digit numbers where the digit sum is six and the tens of thousands digit is two. Eg 4020000 What is the largest/smallest number?
	POLIN	NDING		
		round any number to the nearest 10, 100 or 1000	round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000	round any whole number to a required degree of accuracy
		round decimals with one decimal place to the nearest whole number (copied from Fractions)	round decimals with two decimal places to the nearest whole number and to one decimal place (copied from Fractions)	solve problems which require answers to be rounded to specified degrees of accuracy (copied from Fractions)
		Possible answers A number rounded to the nearest ten is 540. What is the smallest possible number it could be?  What do you notice? Round 296 to the nearest 10. Round it to the nearest 100. What do you notice? Can	Possible answers A number rounded to the nearest thousand is 76000 What is the largest possible number it could be?  What do you notice? Round 343997 to the nearest 1000. Round it to the nearest 10000. What do you notice?	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?  What do you notice? Give an example of a six digit number which rounds to the



	you suggest other numbers like this?	Can you suggest other numbers like this?	same number when rounded to the nearest 10000 and 100000
			100000



PROBLEM SOLVING						
use place valu number facts problems	to solve and	d practical problems	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	