



Mount Charles

Place Value and Number

Key Objective. K-Knowledge S-Skill

	key Objective. K-Knowledge 5-5kill						
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
New Vocabulary	Number One, two, three to twenty and beyond None Count on/up/to/from/down Before, after More, less, many, few, fewer, fewest, smaller, smallest Equal to, the same as Odd, even Digit Numeral Compare Order Size Value Between, halfway between	tens (10s) ones (1s) more fewer order smallest 100 square number square place value grid sort group number track digit pattern one more one less matched fewer greater than (>) less than (<) equal to (=) most least fewest greatest number line tens (10s) ones (1s) more fewer order smallest	Numbers to one hundred Hundreds Partition, recombine Hundred more/less	Estimate Exchange Numbers to one thousand	Nearest Step Descending Ascending Tenths Hundredths Decimal (places) Round (to nearest) Thousand more/less than Negative numbers Count through zero Roman numerals (I to C)	million step descending ascending nearest Powers of 10	Numbers to ten million



					CHARLES SCHOOL STATES
Ω	Enjoys reciting			interpret negative	use negative
Counting	numbers from 0 to			numbers in context,	numbers in
इं	10 (and beyond) and			count forwards and	context, and
<u>a</u>	back from 10 to 0			backwards with	calculate
	Counts out up to 10			positive and negative	intervals across
	objects from a larger			whole numbers,	zero
	group			including through	
	• Engages in			zero	K - when
	subitising numbers				negative numbers
	to four and maybe			K - when negative	are used
	five			numbers are used	(Temperature)
	Increasingly			(Temperature)	K – how to read
	confident at putting			K – how to read	negative numbers
	numerals in order 0			negative numbers	
	to 10 (ordinality)				S – using a
	Matches the numeral			S – counting forwards	number line to
	with a group of items			and backwards	calculate intervals
	to show how many			through zero	S
	there are (up to 10)				
				count forwards or	
				backwards in steps of	
				powers of 10 for any	
				given number up to 1	
				000 000	
				K – multiply by	
				10,100, 1000, 10 000,	
				100 000	
				K - order of numbers	
				to 1 000 000	
				S – counting forwards	
				and backwards to 1	
				000 000	
				S – multiplying any	
				number by 10, 100,	
				1000, 10 000, 100 000	



							CHARLES SCHOOL STATES
Comparing number	Uses number names and symbols when comparing numbers, showing interest in large numbers	use the language of: equal to, more than, less than (fewer), most, least K – meaning of vocab: equal to, more than, less than (fewer), most, least S -using the above vocab correctly	compare and order numbers from 0 up to 100; use <, > and = signs K – value of numbers to 100 K- meaning of <, > and = signs S – compare numbers using <, > and + signs S – order numbers from 0 - 100	compare and order numbers up to 1000 K – value of numbers to 1000 S – compare numbers to 1000 K – order numbers to 1000	order and compare numbers beyond 1 000 K – value of numbers beyond 1000 S – compare numbers beyond 1000 S – order 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) K – place value headings for the place value chart to 1 million K – correct spellings for numbers to 1 million S- read numbers to at least 1 million S – write numbers to at least 1 million S – order and compare numbers to at least 1 million S – give the value of any digit in a number to 1 million	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) K – place value headings for the place value chart to 10 million K – correct spellings for numbers to 10 million S- read numbers to at least 01 million S – write numbers to at least 10 million S – order and
						to 1 million	compare numbers to at least 10 million

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						S – give the value
						of any digit in a
						number to 10
						million
_	Uses number names	identify and	identify, represent	identify, represent	identify, represent	
der	and symbols when	represent numbers	and estimate	and estimate	and estimate	
#	comparing numbers,	using objects and	numbers using	numbers using	numbers using	
Identifying,	showing interest in	pictorial	different	different	different	
<u>2</u>	large numbers	representations	representations,	representations	representations	
ep	Estimates of	including the	including the			
SS.	numbers of things,	number line	number line			
ent .	showing					
ing	understanding of	K – value of numbers	K – meaning of			
representing and estimating numbers	relative size	K – each number	estimate			
де		formation and name	K – how to make a			
sti		S – identify numbers	logical estimation			
ma		using objects and	S- estimate			
tin ₂		pictorial	numbers using			
50		representations	different			
ᆵ		S – represent	representations.			
be		numbers using	S- identify,			
S		objects and pictorial	represent and			
		representations	estimate numbers			
		representations	Communic mambers			



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		using different representations.				
Reading and writing numbers (in	read and write numbers from 1 to 20 in numerals and words. K – names for each numeral K – which numerals represent each number from 1- 20 S – to form each	read and write numbers to at least 100 in numerals and in words K – which numerals represent each number to at least 100 K – value of each digit in a number up to, and including 3	read and write numbers up to 1000 in numerals and in words K – which numerals represent each number to 1000 K - value of each digit in a number up to 4 digits S- to write numbers		read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Comparing Numbers) K – which numerals represent each number to at least 1 million K - value of each digit	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value) K – which
(including Roman Numerals)	numeral correctly S – to write numbers 10 to 20 in numerals S – to read numbers from 1 to 20	digits S – to write numbers 10 to 100 in numerals S – to read numbers from 1 to at least 100	up to 1000 S -to read numbers up to 1000		in a number up to 7 digits S- to write numbers up to at least 1 million S -to read numbers up to at least 1 million. Read Roman numerals to 1000 (M) and recognise years	numerals represent each number to 10 million K - value of each digit in a number up to 8 digits S- to write numbers up to 10 million S -to read
			tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	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.	written in Roman numerals. K – Roman numerals to 1000 K – how to read numbers following the Roman numeral system	numbers up to 10 million.



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		(copied from	K – Roman's	S- read Roman	
		Measurement	represented	numerals to 1000	
			numerals in different		
			ways.		
			K – the Roman		
			numerals to 100		
			K – how to read		
			numbers following		
			the Roman numeral		
			system		
			S – read Roman		
			numerals to 1000		



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⊆		recognise the place	recognise the place	recognise the place	read, write, order and	read, write, order
Understanding Place value		value of each digit	value of each digit in	value of each digit in	compare numbers to	and compare
erst	ii	in a two-digit	a three-digit number	a four-digit number	at least 1 000 000 and	numbers up to
an	n	number (tens,	(hundreds, tens,	(thousands,	determine the value	10 000 000 and
di	0	ones)	ones)	hundreds, tens, and	of each digit	determine the
99 P				ones)	(appears also in	value of each
lac	K	K – value of	K – each digit has a		Reading and Writing	digit (appears
e <	n	numerals	different value in a 3	K – each digit has a	Numbers)	also in Reading
alu	K	K – each digit has a	digit number	different value in a 4	K – which numerals	and Writing
Ф	d	different value in a		digit number	represent each	Numbers)
	2	2 digit number	S – recognize the		number to at least 1	
			place value of each	S – recognize the	million	K – which
	S	S – recognize the	digit in a 3 digit	place value of each	K - value of each digit	numerals
	p	place value of each	number	digit in a 4 digit	in a number up to 7	represent each
	d	digit in a 2 digit		number	digits	number to 10
	n	number			S- to write numbers	million
					up to at least 1 million	K - value of each
				find the effect of	S -to read numbers up	digit in a number
				dividing a one- or	to at least 1 million.	up to 8 digits
				two-digit number by		S- to write
				10 and 100,	recognise and use	numbers up to 10
				identifying the value	thousandths and	million
				of the digits in the	relate them to tenths,	S -to read
				answer as units,	hundredths and	numbers up to 10
				tenths and	decimal equivalents	million.
				hundredths	(copied from	
				(copied from	Fractions)	
				Fractions)		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
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					CHARLES SCAPE
					to three decimal place
Rou			round any number to the nearest 10,	round any number up to 1000 000 to the	round any whole number to a
Rounding,			100 or 1 000	nearest 10, 100, 1 000, 10 000 and 100	required degree of accuracy
			K – uses for rounding in real life	000	K – where any
			K – where any number to 10 000	K – where any number to 100 000 lies on	number lies on a number line
			lies on number line S – to know the	number line S – to know the	S – to round any
			relevant closest	relevant closest	whole number to
			multiples of 10, 100 or 1000 depending	multiples of 10, 100, 1000, 10 000 or 100	a required degree of accuracy
			on the number being	000 depending on the	or accuracy
			rounded	number being	solve problems
				rounded	which require

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						CHARLES SCHOOL STATES
				S – to round any number to the nearest 10, 100 or 1000 round decimals with one decimal place to the nearest whole number (copied from Fractions)	S – to round any number to the nearest 10, 100, 10 000 or 100 000 round decimals with two decimal places to the nearest whole number and to one decimal place (copied from Fractions)	answers to be rounded to specified degrees of accuracy (copied from Fractions)
Problem solving		use place value and number facts to solve problems K – value of 2 digit numbers K – order of 2 digit numbers K – multiples of 2,3,5 and 10 K – how to use <, > and = to compare numbers S – apply the above knowledge to solve problems	solve number problems and practical problems involving these ideas. K – value of 3 digit numbers K – order of 3 digit numbers K – multiples of 4,8,50 and 100 K – add or subtract 10 or 100 to any number S – apply the above knowledge to solve problems	solve number and practical problems that involve all of the above and with increasingly large positive numbers K – value of 4 digit numbers K – order of 4 digit numbers K – multiples of 6,7,9 25, 1000 K – add or subtract 1000 to any number K – read Roman Numerals to 100 K – round numbers to the nearest 10, 100 or 1000 K - count forwards and backwards through zero	solve number problems and practical problems that involve all of the above K – value of 8 digit numbers K – order of 8 digit numbers K – read and write numbers to at least 1 000 000 K – read Roman Numerals to 1000 K – interpret negative numbers in context K – round numbers to the nearest 10, 100, 1000, 10 000 or 100 000. K - count forwards and backwards through zero	solve number and practical problems that involve all of the above K – value of 8 digit numbers K – order and compare numbers to at least 10 million K – read and write numbers to at least 10 000 000 K –use negative numbers in context and calculate intervals across zero K – round numbers to any given accuracy.

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		S – apply the above knowledge to solve problems	S – apply the above knowledge to solve problems	S – apply the above knowledge to solve problems