Subject: Numeracy	White Rose Maths: Number: Place Value		
Class: Elephants	Teacher: Sukhi Lall	Term: Autumn 1	
Key Vocabulary:	Alternative Learning Environments	Resources:	
Place value, sort objects, count, counting, read, forwards, backwards, one more, one less, one-to-one correspondence, compare, groups, equal, less/fewer, more/greater, symbols, order, ordinal numbers	School environment	Numeracy manipulatives Cubes, counter, Number lines, number square Number cards, digit cards WHITE ROSE scheme of work	

Unit Aim: children will recognise the place value of each digit in a four-digit number and continue to order and compare numbers up to 10,000 using mathematical vocabulary and symbols. They will identify, represent and estimate numbers using different representations and will round numbers to the nearest 100. Children will focus on counting from 0 in multiples of 6, 7, 9, 25 and 100; count backwards through zero to include negative numbers; and find 1000 more or less than a given number. They will begin to read Roman numerals up to 100. Finally, children will have the opportunity to use all their number and place value skills to solve a range of problems

Prior Learning:

able to recognise the place value of each digit in single-digit and two-digit number (tens, unit) read and write numbers to at least 10, 20 100 in numerals and in words. Use place value and number facts to solve simple problems

Future Learning:

Unit Expectations:

All: will count forwards, backwards, in sequence numbers to 10/20 and beyond. Know the value of each digit to 10. Understand how to compare and order numbers

Some: pupils should know the number bonds to 20 and be precise in using and understanding place value.

A Few: will count across 10,20. Read and write numbers in numerals and words to 10, 20

Links with other subjects:

ICT: play number games -read and solve problems sequences

Literacy read and write numbers in words

History: Roman numerals

Pupil Asset Milestones to be achieved:

Subject: Number Place Value

Stage 3

Recognises the place value of each digit in a three-digit number (hundreds, tens, ones).

Compares and orders numbers up to 1000.

Identifies, represents and estimates numbers using different representations.

Reads and writes numbers up to 1000 in numerals and in words.

Solves number problems and practical problems involving these ideas.

Solves number and practical problems that involve all of the above and with increasingly large positive numbers

Counts from 0 in multiples of 4, 8, 50 and 100; finds 10 or 100 more or less than a given number.

Recognises the place value of each digit in a three-digit number (hundreds, tens, ones).

Compares and orders numbers up to 1000.

Identifies, represents and estimates numbers using different representations.

Reads and writes numbers up to 1000 in numerals and in words.

Solves number problems and practical problems involving these ideas.

Solves number and practical problems that involve all of the above and with increasingly large positive numbers

Number - addition and subtraction

Adds and subtracts numbers mentally, including a three-digit number and ones.

Add and subtracts numbers mentally, including a three-digit number and tens.

Adds and subtracts numbers mentally, including a three-digit number and hundreds.

Adds and subtracts numbers with up to three digits, using formal written methods of columnar addition and subtraction.

Estimates the answer to a calculation and uses inverse operations to check answers.

Solves problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

Number - addition and subtraction

Stage 2

Number and place value

Counts in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.

Recognises the place value of each digit in a two-digit number (tens, ones).

Identifies, represents and estimates numbers using different representations, including the number line.

Compares and orders numbers from 0 up to 100; use <, > and = signs.

Reads and writes numbers to at least 100 in numerals and in words

Uses reasoning about place value and number facts to solve problems

Addition and Subtraction

Shows that addition of two numbers can be done in any order and subtraction of one number from another cannot.

Recognises and uses the inverse relationship between addition and subtraction and use this to check calculations and solves missing number problems

Stage 1

Number and place value

Counts to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.

Counts, reads and writes numbers to 100 in numerals; counts in multiples of twos, fives and tens.

Given a number, identifies one more and one less.

Identifies and represents numbers using objects and pictorial representations including the number line, and uses the language of: equal to, more than, less than (fewer), most, least.

Reads and writes numbers from 1 to 20 in numerals and words

Number - addition and subtraction

Reads, writes and interprets mathematical statements involving addition (+), subtraction () and equals (=) signs.

Represents and uses number bonds and related subtraction facts within 20.

Adds and subtracts one-digit and two-digit numbers to 20, including zero Solves one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = n 9.

W/K9

Number and place value

Counts reliably with numbers from one to 20, placing them in order.

Says which number is one more than a given number. Says which number is one less than a given number.

Writes numerals up to 20 with increasing accuracy.

Records numbers from 1-20 and associates these with the number of objects they have counted.

Recognises 0 and none and zero in stories and rhymes and counting and ordering.

Number and place value

Counts reliably with numbers from one to 20, placing them in order.

Number - addition and subtraction

Using quantities and objects, adds and subtracts two single-digit numbers and counts on or back to find the answer.

Using numbers up to 10, solves problems involving addition or subtraction, including comparing two sets to find a numerical difference.

Begins to know by heart all pairs of whole numbers with totals up to 10 and uses these facts to add or subtract a pair of numbers mentally.

Moves forwards and backwards using a number line to 20.

Number - addition and subtraction

Week	Session 1 Number	Session 2 Number	Session 3 Number	Session 4 Number	Session 5 Number
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Lesson Objective

Counting forwards and backwards to 20

Activities

Starter PPT/Video
Pupils answer questions
on w/b

Maths Questions from SoW

ZB TH - Jayne

Solve the questions on the sheet.

KG AD ES FK FM-D Sort a set of objects
according to criteria
Sukhi/Katie
ZH PB

Sophie

Lesson Objective

Tens and ones within 20 I know my tens and ones within 20 I can identify place value for each digit within 20

Activities

Starter PPT/Video
Pupils answer questions
on w/b

Maths Questions from SoW

ZB TH -Jayne

Identify each digit place value within 20, 50

KG AD ES FK FM-D -

Use place resources to identify place value for each digit -Sukhi/Katie

ZH PB

(follow Year 1 plans) Counting to 10 using objects **Sophie**

Lesson Objective

Counting forwards and backwards to 50 I can count forwards and backwards within 50

Activities

Starter PPT/Video
Pupils answer
questions on w/b
Maths Questions from
SoW

ZB TH -Jayne

Count on number line to 50 forwards and backwards

KG AD ES FK FM-D -Number square counting. Missing number no square Sukhi/Katie ZH PB

(follow Year 1 plans)
Counting to 10 using
objects Sophie

Lesson Objective

Tens and ones within 50 I can identify the place value of each digit

Activities

Starter PPT/Video
Pupils answer questions
on w/b

Maths Questions from SoW

ZB TH - Jayne

Name each place value given within 50/answer Qs on worksheet

KG AD ES FK FM-D -Use place value cards to

identify place value

Sukhi/Katie

ZH PB

((follow Year 1 plans) Counting to 10 using objects **Sophie**

Lesson Objective

I can solve simple problems using my understanding of the four operations

Activities

ZH TH

Solve problems with guidance -read the questions with some support- solve using some independence

RO JK

Support with reading the questions and suggest a method to solve the task

KG AD

Support with reading. Support them with methods used for solving problems

Lesson Objective Lesson Objective Lesson Objective Lesson Objective Lesson Objective Compare numbers within Count objects to 100 Represent numbers to Represent numbers to I can solve simple and read and write 100 100 50 problems using my understanding of numbers in numeral and (activity) the four operations words **Activities** Activities **Activities** Activities **Activities** ZH TH Starter PPT/Video Starter PPT/Video Starter PPT/Video Starter PPT/Video Solve problems with Pupils answer questions Pupils answer questions Pupils answer Pupils answer questions quidance -read the on w/b on w/b on w/b questions on w/b questions with some Maths Questions from Maths Questions from Maths Questions from Maths Questions from support- solve using SoW SoW SoW SoW some independence ZB TH -Sukhi ZB TH -Sukhi ZB TH -Sukhi RO JK Use symbols to identify Count set of objects How to group beads, ZB TH -Sukhi Support with reading greater than/less than and group then. Read match the number to Complete the number the questions and with some guidance and write numbers given set of cubes, sticks sentences and represent suggest a method to KG AD ES FK FM-D from the number square given numbers etc solve the task KG AD ES FK FM-D -KG AD ES FK FM-D -KG AD ES FK FM-D -KG AD Image to recognise the Support with reading. <>symbols to compare Read and write numbers Match the numbers to represent numbers in Support them with digits given correctly. Use image using cubes WR different ways. methods used for Sophie/Katie resources to read on Sophie/Katie auestions solving problems ZH PB Jayne ZH PB Jayne number square Sophie/Katie (follow Year 1 plans) Sophie/Katie ((follow Year 1 plans) Counting to 10 using ZH PB Jayne ZH PB Jayne objects (follow Year 1 plans) (follow Year 1 plans)

	Lesson Objective	Lesson Objective	Lesson Objective	Lesson Objective	Lesson Objective
	Tens and ones with a	Tens and ones using	Use a place value chart	Compare objects	Lesson Objective
	part-whole model	addition			I can solve simple
					problems using my
	Activities	Activities	Activities		understanding of
	Starter PPT/Video	Starter PPT/Video	Starter PPT/Video	Activities	the four operations
	Pupils answer questions	Pupils answer questions	Pupils answer	Starter PPT/Video	
	on w/b	on w/b	questions on w/b	Pupils answer questions	Activities
	Maths Questions from	Maths Questions from	Maths Questions from	on w/b	ZH TH
	SoW	SoW	SoW	Maths Questions from	Solve problems with
21				SoW	guidance -read the
3 20/09/21	Finley & Riley -guidance Finley	Finley & Riley -guidance	Finley & Riley -		questions with some
0/0			guidance	Finley & Riley -guidance	support- solve using
2	Jimmy & Freddie -	Jimmy & Freddie -			some independence
	Support	Support	Jimmy & Freddie -	Jimmy & Freddie -	Support with reading
			Support	Support	the questions and
	Preston 7 Kieran -	Preston 7 Kieran -			suggest a method to
	guidance with some	guidance with some	Preston 7 Kieran -	Preston 7 Kieran -	solve the task
	support	support	guidance with some	guidance with some	KG AD
			support	support	Support with reading.
					Support them with
					methods used for
					solving problems

	Lesson Objective	Lesson Objective	Lesson Objective	Lesson Objective	Lesson Objective
	Compare numbers	Order objects and	Count in 2s	Count in 5s and 10s	I can solve simple
	Activities	numbers	Activities	Activities	problems using my
	Starter PPT/Video		Starter PPT/Video	Starter PPT/Video	understanding of
	Pupils answer questions	Activities	Pupils answer	Pupils answer questions	the four operations
	on w/b	Starter PPT/Video	questions on w/b	on w/b	
	Maths Questions from	Pupils answer questions	Maths Questions from	Maths Questions from	Activities
	SoW	on w/b	SoW	SoW	ZH TH
	Finley & Riley -guidance	Maths Questions from			Solve problems with
_	_	SoW	Finley & Riley -	Finley & Riley -guidance	guidance -read the
4	Jimmy & Freddie -	Finley & Riley -guidance	guidance		questions with some
4 5	Support			Jimmy & Freddie -	support- solve using
7	S	Jimmy & Freddie -	Jimmy & Freddie -	Support	some independence RO JK
	Preston 7 Kieran -	Support	Support		Support with reading
	guidance with some			Preston 7 Kieran -	the questions and
	support.	Preston 7 Kieran -	Preston 7 Kieran -	guidance with some	suggest a method to
		guidance with some	guidance with some	support	solve the task
		support	support		KG AD
					Support with reading.
					Support them with
					methods used for
					solving problems

to count in 3s Sophie

Lesson Objective Lesson Objective Lesson Objective Lesson Objective Lesson Objective Check calculations Count in 3s Fact families-addition Compare number I can solve simple and subtraction bonds problems using my sentences understanding of **Activities** to 20 Starter PPT/Video the four operations Activities Activities Starter PPT/Video Starter PPT/Video Pupils answer questions Activities Starter PPT/Video on w/b Pupils answer Pupils answer questions Activities ZH TH Pupils answer questions Maths Questions from auestions on w/b on w/b Solve problems with SoW on w/b Maths Questions from Maths Questions from quidance -read the Maths Questions from SoW ZB TH - Jayne SoW 04/10/21 questions with some Count in 3s in various SoW ZB TH - Jayne ZB TH - Jayne support- solve using ways. Recite counting in ZB TH - Jayne Calculate number Compare similar some independence 3s Use inverse to find fact sentence and chance calculations and find RO JK KG AD ES FK FM-D families/write number answers using fact simple patterns Support with reading KG AD ES FK FM-D -Count different objects sentences to show the families the questions and in 3s several times KG AD ES FK FM-D fact family Sukhi/Katie suggest a method to KG AD ES FK FM-D -Sukhi/Katie Sukhi/Katie solve the task ZH PB ZH PB Sophie Sukhi/Katie KG AD ZH PB Sophie (follow Year 1 plans) Support with reading. (follow Year 1 plans) ZH PB Sophie Support them with Use a range of resources (follow Year 1 plans) (follow Year 1 plans) methods used for

solving problems

		Lesson Objective	Lesson Objective	Lesson Objective	Lesson Objective	Lesson Objective
		Know your bonds	Related facts	Bonds to 100 (tens)	Add and subtract 1s	I can solve simple
					Add and subtract is	problems using my understanding of
		Activities	Activities	Activities	Activities	the four operations
		Starter PPT/Video	Starter PPT/Video	Starter PPT/Video	Starter PPT/Video	
		Pupils answer questions	Pupils answer questions	Pupils answer	Pupils answer questions	Activities
		on w/b	on w/b	questions on w/b	on w/b	ZH TH
		Maths Questions from	Maths Questions from	Maths Questions from	Maths Questions from	Solve problems with
		SoW	SoW	SoW	SoW	guidance -read the
		ZB TH -Sukhi	ZB TH -Sukhi	ZB TH -Sukhi	ZB TH -Sukhi	questions with some
	11	Quick fire Qs on bonds	Ask what is	Find multiples of 10	Solve problems involving	support- solve using some independence
	, 0/9	to 10, 20, 50, 100	different/same? Find	Use 10 frame to	add/a/subtract 1	RO JK
	6 11/10/21	WR questions	the relationship	represent 100	KG AD ES FK FM-D -	Support with reading
	7	KG AD ES FK FM-D -	between the different	KG AD ES FK FM-D -	Use bead string to	the questions and
		Quick fire questions-find	numbers	Bonds to 10, 100	add/subtract 1	suggest a method to
		two numbers to 10, 20	KG AD ES FK FM-D -	Sophie/Katie	Sophie/Katie	solve the task
		Sophie/Katie	Sophie/Katie			KG AD
			As above, use	ZH PB	ZH PB Jayne	Support with reading.
		ZH PB find two numbers	cubes/images etc	Bonds to 10 continue to	(follow Year 1 plans)	Support them with
		to 10 Jayne	ZH PB Jayne	build on bonds for 10,	Add 1 to number of	methods used for
		(follow Year 1 plans)	(follow Year 1 plans)	20	objects	solving problems
			Set cube of 10 then	Jayne		
			take or add to make the 10	(follow Year 1 plans)		

Lesson Objective Add and subtract 10 Activities

Starter PPT/Video Pupils answer questions on w/b Maths Questions from SoW ZB TH -Sophie Calculate mentally 10 more/less. Repeat several numbers. KG AD ES FK FM-D -Complete mentally then on sheet to find 10 more/less Jayne/Katie ZH PB (follow Year 1 plans) Add/subtract 10 from

given number of objects

Sukhi

Lesson Objective

Add by making 10

Activities

Starter PPT/Video
Pupils answer questions
on w/b
Maths Questions from
SoW
ZB TH - Sophie
Input/output activity
KG AD ES FK FM-D WR activity questions
Jayne/Katie

ZH PB Sukhi (follow Year 1 plans) Subtract/add 10 to single digit

Lesson Objective

Add a 2-digit and 1digit number -crossing ten

Activities

Starter PPT/Video
Pupils answer
questions on w/b
Maths Questions from
SoW

ZB TH - Sophie Find two numbers to 10, develop a quick recall. Questions WR questions

KG AD ES FK FM-D As above-start with
two single-digit
number Jayne/Katie
ZH PB
(follow Year 1 plans)
Count single digit
numbers and then add

to find 10 Sukhi

Lesson Objective

Add a 2-digit and 1-digit number -crossing ten

Activities

SoW

Sukhi

Starter PPT/Video
Pupils answer questions
on w/b
Maths Questions from

ZB TH - Sophie Solve mentally two-digit number with single-digit quickly. Complete WR questions

KG AD ES FK FM-D As above but with
support and
manipulatives
Jayne/Katie
ZH PB
(follow Year 1 plans)
Count then add together

Lesson Objective

I can solve simple problems using my understanding of the four operations

Activities

ZH TH
Solve problems with
guidance -read the
questions with some
support- solve using

some independence ${f RO}$ ${f JK}$

Support with reading the questions and suggest a method to solve the task

KG AD

Support with reading. Support them with methods used for solving problems