Subject: Numeracy	White Rose Maths: Number: Place Value		
Class: Elephants	Teacher: Sukhi Lall		Term: Autumn 1
Key Vocabulary: 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	Alternative Learning Environments School environment		Resources: 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 |
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| Week | Session 1 Number | Session 2 Number | Session 3 Number | Session 4 Number | Session 5 Number |

| 1 06/09/21 | **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 |

2 13/09/21	**Lesson Objective** Compare numbers within 50 **Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Sukhi** Use symbols to identify greater than/less than with some guidance **KG AD ES FK FM-D –** Image to recognise the <>symbols to compare digits **Sophie/Katie** **ZH PB Jayne** (follow Year 1 plans) Counting to 10 using objects	**Lesson Objective** Count objects to 100 and read and write numbers in numeral and words **Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Sukhi** Count set of objects and group then. Read and write numbers given from the number square **KG AD ES FK FM-D –** Read and write numbers given correctly. Use resources to read on number square **Sophie/Katie** **ZH PB Jayne** (follow Year 1 plans)	**Lesson Objective** Represent numbers to 100 (activity) **Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Sukhi** How to group beads, match the number to set of cubes, sticks etc **KG AD ES FK FM-D –** **Match the numbers to image using cubes WR questions** **Sophie/Katie** **ZH PB Jayne** (follow Year 1 plans)	**Lesson Objective** Represent numbers to 100 **Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Sukhi** Complete the number sentences and represent given numbers **KG AD ES FK FM-D –** represent numbers in different ways. **Sophie/Katie** **ZH PB Jayne** ((follow Year 1 plans)	**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

3 20/09/21	**Lesson Objective** Tens and ones with a part-whole model	**Lesson Objective** Tens and ones using addition	**Lesson Objective** Use a place value chart	**Lesson Objective** Compare objects	**Lesson Objective** **Lesson Objective** I can solve simple problems using my understanding of the four operations
	Activities **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Sophie** Use part-whole model with two-digit numbers **KG AD ES FK FM-D –** Explain how to use part-whole model chn apply learning to simple two-digit numbers **Jayne/Katie** **ZH PB Sukhi (follow Year 1 plans)** Adding single digits	**Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Sophie** Add single-digit number to two-digit number interpedently **KG AD ES FK FM-D –** Attempt adding two-digit number with single-digit number **Jayne/Katie** **ZH PB Sukhi (follow Year 1 plans)** Adding single-digit numbers	**Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Sophie** What has been represented by digits and cubes in the charts? **KG AD ES FK FM-D –** Write other numbers using place value charts **Jayne/Katie** **ZH PB Sukhi (follow Year 1 plans)**	**Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Sophie** Use <, > and = to compare images **KG AD ES FK FM-D –** Compare object using < > and = cards - **Jayne/Katie** **ZH PB Sukhi (follow Year 1 plans)**	**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

4 27/09/21	**Lesson Objective** Order objects and numbers **Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Jayne** Order numbers digit cards in different ways **KG AD ES FK FM-D –** Order number digit cards in various ways **Sukhi/Katie** **ZH PB Jayne** **(follow Year 1 plans)** .	**Lesson Objective** Count in 2s **Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Jayne** Develop quick recall for 2s, complete sequences of 2 **KG AD ES FK FM-D –** Count different objects in 2s several times **Sukhi/Katie** **ZH PB Jayne** **(follow Year 1 plans)**	**Lesson Objective** Count in 5s **Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Jayne** Develop quick recall for 5s, complete sequences of 2 **KG AD ES FK FM-D –** Count different objects in 5s several times **Sukhi/Katie** **ZH PB Jayne** **(follow Year 1 plans)**	**Lesson Objective** Count in 10s **Activities** **Starter PPT/Video** **Pupils answer questions on w/b** Maths Questions from SoW **ZB TH -Jayne** Develop quick recall for 10s, complete sequences of 2 **KG AD ES FK FM-D –** Count different objects in 10s several times **Sukhi/Katie** **ZH PB Jayne** **(follow Year 1 plans)**	**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

| 5 04/10/21 | **Lesson Objective**
Count in 3s

Activities
Starter PPT/Video
Pupils answer questions on w/b
Maths Questions from SoW
ZB TH -Jayne
Count in 3s in various ways. Recite counting in 3s
KG AD ES FK FM-D –
Count different objects in 3s several times
Sukhi/Katie
ZH PB
(follow Year 1 plans)
Use a range of resources to count in 3s **Sophie** | **Lesson Objective**
Fact families-addition and subtraction bonds to 20

Activities
Starter PPT/Video
Pupils answer questions on w/b
Maths Questions from SoW
ZB TH -Jayne
Use inverse to find fact families/write number sentences to show the fact family
KG AD ES FK FM-D –
Sukhi/Katie
ZH PB Sophie
(follow Year 1 plans) | **Lesson Objective**
Check calculations

Activities
Starter PPT/Video
Pupils answer questions on w/b
Maths Questions from SoW
ZB TH -Jayne
Calculate number sentence and chance answers using fact families
KG AD ES FK FM-D –
Sukhi/Katie

ZH PB Sophie
(follow Year 1 plans)
. | **Lesson Objective**
Compare number sentences

Activities
Starter PPT/Video
Pupils answer questions on w/b
Maths Questions from SoW
ZB TH -Jayne
Compare similar calculations and find simple patterns
KG AD ES FK FM-D –
Sukhi/Katie

ZH PB Sophie
(follow Year 1 plans) | **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 |

| 6
11/10/21 | **Lesson Objective**
Know your bonds

Activities
Starter PPT/Video
Pupils answer questions on w/b
Maths Questions from SoW
ZB TH -Sukhi
Quick fire Qs on bonds to 10, 20, 50, 100
WR questions
KG AD ES FK FM-D –
Quick fire questions-find two numbers to 10, 20
Sophie/Katie

ZH PB find two numbers to 10 **Jayne**
(follow Year 1 plans) | **Lesson Objective**
Related facts

Activities
Starter PPT/Video
Pupils answer questions on w/b
Maths Questions from SoW
ZB TH -Sukhi
Ask what is different/same? Find the relationship between the different numbers
KG AD ES FK FM-D –
Sophie/Katie
As above, use cubes/images etc
ZH PB Jayne
(follow Year 1 plans)
Set cube of 10 then take or add to make the 10 | **Lesson Objective**
Bonds to 100 (tens)

Activities
Starter PPT/Video
Pupils answer questions on w/b
Maths Questions from SoW
ZB TH -Sukhi
Find multiples of 10
Use 10 frame to represent 100
KG AD ES FK FM-D –
Bonds to 10, 100
Sophie/Katie

ZH PB
Bonds to 10 continue to build on bonds for 10, 20
Jayne
(follow Year 1 plans) | **Lesson Objective**

Add and subtract 1s

Activities
Starter PPT/Video
Pupils answer questions on w/b
Maths Questions from SoW
ZB TH -Sukhi
Solve problems involving add/a/subtract 1
KG AD ES FK FM-D –
Use bead string to add/subtract 1
Sophie/Katie

ZH PB Jayne
(follow Year 1 plans)
Add 1 to number of objects | **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 |

Sukhi Lall – Elephants -Term 1 21-22 – Number: Place Value

| 7 18/10/2 | **Lesson Objective** 10 more and 10 less

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 and subtract 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 by making 10

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