Year 3 Objectives: Number

NUMBER AND PLACE VALUE	
Objective 1: Read and write numbers up to 1000 in numerals and words	
Read and write all numbers to 100	***1**
Read and write all numbers in 100s from 100 to 1000	***2**
Read and write all numbers in 50s from 50 to 1000	***3**
Read and write all numbers in 10s from 10 to 1000	
Read and write all numbers to the value of 1000	***4**
Objective 2: Recognise place value of each digit in a 3-digit number (hundreds, tens, ones)	
Know and use terms: units, tens and hundreds correctly	***1**
Partition any number up to 999 showing the value of each digit	***2**

NUMBER AND PLACE VALUE	
Objective 3: Compare and order numbers up to 1000	
Know which of two 3-digit numbers is the greater and smaller	***1**
Order a set of 3-digit numbers from smallest to largest	***2**
Order a set of 3-digit numbers from largest to smallest	
Objective 4: Count in multiples of 4, 8, 50 and 100 from 0	
Count on and back in 10s from 0 to 1000	***1**
Count on and back in 100s from 0 to 1000	***2**
Count on and back in 50s from 0 to 1000	
Count on and back in 4s from 0 to 1000	***3**
Count on and back in 8s from 0 to 1000	***4**

Year 3 Objectives : Number 2

NUMBER AND PLACE VALUE

Objective 5: Find 10 or 100 more or less than a given number	
Find 10 more than a given number between 0 and 1000	*1
Find10 less than a given number between 0 and 1000	*2
Find100 more than a given number between 0 and 1000	
Find100 less than a given number between 0 and 1000	

ADDITION AND SUBTRACTION

Objective 6: Mental addition and subtraction: pairs of one and 2-digit numbers; a 3-digit number and ones; a 3-digit number and tens; a 3-digit number and hundreds	
Add rapidly any 2 single-digit numbers	*1
Subtract rapidly any 2 single-digit number	
Add together mentally any single-digit and any 2-digit number	*2
Subtract any single-digit number from a 2-digit number	
Add together mentally any 3-digit number and any single-digit number	*3
Subtract any single-digit number from a 3-digit number	
Add together mentally any 3-digit number and any 10s number	
Subtract any 10s number from a 3-digit number	*4
Add together mentally any 3-digit number and any 100s number	
Subtract any 100s number from a 3-digit number	

Year 3 Objectives : Number 3

NUMBER AND PLACE VALUE	
Objective 7: Identify, represent and estimate numbers using different representations, including those related to measure	
Know that 7 tens and 3 ones is 73	***1**
Know that 6 hundreds, 5 tens and 2 ones is 652	
Know that an object of 4.8m is longer than one of 356cm	***2**
Know that 257cm is 2.57m	***3**
Objective 8: Solve number problems and practical problems involving numbers up to 1000	
Solve problems such as which is greater: 3 hundreds, 6 tens and 4 ones or 578?	
Use everyday situations to solve problems involving addition with answers no greater than 1000	
Use everyday situations to solve problems involving subtraction using numbers that are no greater than 1000	

Year 3 Objectives : Number 4

ADDITION AND SUBTRACTION	
Objective 9: Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction	
Add 2 numbers with 2-digits together using columnar addition without exchange between units and tens	***1**
Subtract a 2-digit number from another using columnar subtraction which requires no exchange between the units, tens or hundreds	
Add 2 numbers with 3-digits together using columnar addition without exchange between units and tens	
Add 2 numbers with 3-digits together using columnar addition, where the units and tens when added make more than 10.	***2**
Add 3 numbers with 3-digits using columnar addition where the units or tens make more than 10	
Subtract a 3-digit number from another using columnar subtraction which requires no exchange between the units, tens or hundreds	***3**
Subtract a 3-digit number from another using columner subtraction which requires exchange between the units, tens or hundreds	***4**

ADDITION AND SUBTRACTION	
Objective 10: Solve word problems, including missing numbers, using number facts, place value, and more complex addition and subtraction	
Solve simple word problems involving missing numbers	
Solve simple word problems involving place value	
Solve simple word problems involving complex addition to 1000	
Solve simple word problems involving complex subtraction to 1000	

Year 3 Objectives : Number 5

ADDITION AND SUBTRACTION	
Objective 11: Estimate the answer to a calculation and use inverse operations to check answers	
Estimate the answer to 65 add 32	***1**
Estimate the answer to 76 subtract 44	
Estimate the answer to 673 add 25	
Estimate the answer to 864 subtract 523	
Know that 500 + 300 = 800 involves the same process as 800 - 300 = 500, or 800 – 500 = 300	***2**
Subtract any single-digit number from a 3-digit number	

ADDITION AND SUBTRACTION	
Objective 12: Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	
Solve simple word problems involving missing numbers	
Solve simple word problems involving place value	
Solve simple word problems involving complex addition to 1000	
Solve simple word problems involving complex subtraction to 1000	

Year 3 Objectives : Number 6

MULTIPLICATION AND DIVISION	
Objective 13: Know all table calculations for 2, 3, 4, 5, 8 and 10	
Recite all multiplication facts for the x2 table	*1
Recite all multiplication facts for the x5 table	
Recite all multiplication facts for the x10 table	
Recite all multiplication facts for the x3 table	
Recite all multiplication facts for the x4 table	
Recite all multiplication facts for the x8 table	
Recall all number facts for the 2, 3, 4, 5, 8 and 10x table out of sequence	
Know the inverse of all table facts involving 2, 3, 4, 5, 8 and 10x table, eg. how many 4s in 24?	*2
Know the inverse of all table facts involving 2, 3, 4, 5, 8 and 10x table, eg. What is 48÷8?	
Objective 14: Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which *n* objects are connected to *m* objects	

MULTIPLICATION AND DIVISION	
Objective 15: Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit times one-digit numbers, using mental and progressing to formal written methods	
Multiply a 10s number by a single-digit number mentally, using 2, 3, 4, 5, 8 and 10x	*1
Multiply a 2-digit number by a single-digit number using 2, 3, 4, 5, 8 and 10x	*2
Divide 2, 3, 4, 5, 8 and 10 into any 10s number (no remainder)	*3
Divide 2, 3, 4, 5, 8 and 10 into any 2-digit number (no remainder)	*4
Objective 16: Solve word problems involving 4 operations, including missing number problems	
Solve word problems involving addition with numbers up to 1000	
Solve word problems involving subtraction with numbers up to 1000	
Solve word problems involving multiplication with numbers up to 100	
Solve word problems involving division with numbers up to 100	

Year 3 Objectives : Number 7

FRACTIONS	
Objective 17: Count up and down in tenths	
Count up in tenths	*1
Count down in tenths	*2
Know that tenths arise from dividing an object into 10 equal parts	*3
Objective 18: Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	
Objective 19: Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	
Know what fractional values are: eg. ¼ is one part of four, etc.	
Name all fractions from ½ to 1/12	
Find ½,¼,⅕ of a given 2-digit number	

FRACTIONS	
Objective 20: Recognise and show, using diagrams, equivalent fractions with small denominators	
Know that ½ is the same as 2/4, etc.	
Be able to show 1/3 of a square and 2/6 of a square	
Objective 21: Add and subtract fractions with same denominator within one whole	
Add 2 fractions with the same denominator that add up to no more than 1 whole, eg. 5/7 + 1/7 = 6/7	*1
Subtract one fraction from another of the same denominator, eg. ⅘ – 2/5 = 2/5	*2
Objective 22: Compare and order unit fractions, and fractions with the same denominators	
Order any fraction between ½ to 1/12	
Order any fraction where the denominator is the same (between ½ to 1/12th)	
Objective 23: Solve problems that involve all of the above	