

2	Mastering Number Project	<p>recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</p> <p>compare and order numbers up to 1000</p> <p>identify, represent and estimate numbers using different representations</p> <p>read and write numbers up to 1000 in numerals and in words</p> <p>solve number problems and practical problems involving these ideas.</p> <p>count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</p>	<p>given a number, identify one more and one less</p> <p>compare and order numbers from 0 up to 100; use < > and = signs</p>	<p>LO: Know how to work out and write numbers on a number line up to 1000</p> <p>LO: Know how to find 1, 10 and 100 more or less than a given number</p> <p>LO: Know how to compare amounts up to 1000</p> <p>LO: Know how to compare numbers up to 1000 (as both a number and its denomination e.g. 800, or 80 tens, compared to 706, or seven hundreds and 6 ones) (x 2 lessons)</p>	NPV1, NPV2, NPV3, NPV4
3	Mastering Number Project	<p>recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</p> <p>compare and order numbers up to 1000</p> <p>identify, represent and estimate numbers using different representations</p> <p>read and write numbers up to 1000 in numerals and in words</p> <p>solve number problems and practical problems involving these ideas.</p> <p>count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</p>	<p>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward</p> <p>add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens * two two-digit numbers * adding three one-digit numbers</p>	<p>LO: Know how to order numbers up to 1000</p> <p>LO: Know how to count in 50s</p> <p>LO: Know how to count, add and subtract in multiples of 100</p> <p>LO: Know how to add and subtract ones to a number made of hundreds, tens and ones (no exchange)</p>	NPV1, NPV2, NPV3, NPV4

4	Mastering Number Project	<p>add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds</p> <p>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</p> <p>estimate the answer to a calculation and use inverse operations to check answers</p> <p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p>	<p>add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens * two two-digit numbers * adding three one-digit numbers</p>	<p>LO: Know how to add and subtract ones to a number made of tens and ones (exchange)</p> <p>LO: Know how to add and subtract ones to a number made of hundreds, tens and ones (exchange)</p> <p>LO: Know how to add and subtract tens to a number made of hundreds, tens and ones (no exchange)</p> <p>LO: Know how to add and subtract tens to a number made of hundreds, tens and ones (exchange)</p> <p>LO: Know how to add and subtract hundreds to a number made of hundreds, tens and ones</p>	NF1, AS1, AS2, AS3
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5	Mastering Number Project	<p>add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds</p> <p>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</p> <p>estimate the answer to a calculation and use inverse operations to check answers</p> <p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p>	<p>add and subtract numbers using concrete objects, pictorial representations, and mentally, including: * a two-digit number and ones * a two-digit number and tens * two two-digit numbers * adding three one-digit numbers</p>	<p>LO: Know how to add and subtract tens and ones to a number made of hundreds, tens and ones (no exchange)</p> <p>LO: Know how to add and subtract tens and ones to a number made of hundreds, tens and ones (exchange) (exchange of ones to tens, then tens to hundreds, then both)</p> <p>LO: Know how to add and subtract hundreds, tens and ones to a number made of hundreds, tens and ones (no exchange)</p> <p>LO: Know how to add and subtract hundreds, tens and ones to a number made of hundreds, tens and ones (exchange) (exchange of ones to tens, then tens to hundreds, then both)</p>	AS1, AS2, AS3
6	Mastering Number Project	<p>add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds</p> <p>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</p> <p>estimate the answer to a calculation and use inverse operations to check answers</p> <p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p>	<p>recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</p>	<p>LO: Know how to add and subtract using a formal written method (X 2 – 3 lessons)</p> <p>LO: know the 8 fact families for a number bond</p> <p>LO: Know how to estimate and check answers</p>	AS1, AS2, AS3

7	Mastering Number Project	<p>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</p> <p>write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</p> <p>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.</p>	<p>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward / recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p>	<p>LO: Know the times tables for 2, 5 and 10</p> <p>LO: Know how to make equal groups by sharing and by grouping, and therefore divide by 2, 5 and 10</p> <p>LO: Know the times table for 3 (x 2 lessons – first multiply and divide by 3 (through both sharing and grouping), then count in 3s, then multiply $0 \times 3 = 0$, $1 \times 3 = 3$, then $3 \times 0 = 0$, $3 \times 1 = 3$ etc)</p> <p>LO: Know the times table for 4 (x 2 lessons – continue into week 8) – first multiply and divide by 4 (through both sharing and grouping), then count in 4s, then multiply $0 \times 4 = 0$, $1 \times 4 = 4$, then $4 \times 0 = 0$, $4 \times 1 = 4$ etc)</p>	MD1
8	Mastering Number Project	<p>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</p> <p>write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</p> <p>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</p>	<p>count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward / recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p>	<p>LO: Know the times table for 8 (x 2 lessons – first multiply and divide by 8 (through both sharing and grouping), then count in 8s, then multiply $0 \times 8 = 0$, $1 \times 8 = 8$, then $8 \times 0 = 0$, $8 \times 1 = 8$ etc)</p> <p>LO: Know how to compare multiplication and division statements</p> <p>LO: Know related multiplication and division calculations (e.g. $6 \times 2 = 12$, so $60 \times 2 = 120$)</p>	MD1

9	Mastering Number Project	<p>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</p> <p>write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</p> <p>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</p>		<p>LO: Know how to multiply a number made of tens and ones by a number made of ones, using repeated addition (no exchange, not formal)</p> <p>LO: Know how to multiply a number made of tens and ones by a number made of ones, using repeated addition (exchange, not formal)</p> <p>LO: Know the formal method for multiplication</p>	MD1
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10	Mastering Number Project	<p>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</p> <p>write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods</p> <p>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</p>		<p>LO: Know how to divide a number made of tens and ones by a number made of ones, using sharing and grouping (no exchange, not formal)</p> <p>LO: Know how to divide a number made of tens and ones by a number made of ones, using sharing and grouping (exchange, not formal)</p> <p>LO: Know how to divide a number made of tens and ones by a number made of ones, using sharing and grouping, where the answer has a remainder (no exchange, not formal)</p> <p>LO: Know how to solve scaling problems</p> <p>LO: Know how to work systematically</p>	MD1
11	Time for assessments & consolidation				
12					

