Key stage 3 - group 1

Autumn 1	Autumn 1 W1	Place Value
Addition and Subtraction		- To be able to represent numbers to 100. - To be able to partition numbers to 100. - To be able to use a number line across 100.
Addition and **Subtraction** on 2 and 3 digit numbers with a revision on **place value.**	Autumn 1 W2	- To be able to identify 100's. - To be able to represent numbers to 1000. - To be able to partition numbers up to 1000.. - To be able to estimate on a number line to 1000.
	Autumn 1 W3	Addition & Subtraction - To be able to apply number bonds within ten. - To be able to add and subtract between 1's and 10's. - To be able to add and subtract across 100. - To be able to make connections.
	Autumn 1 W4	- To be able to add two digit numbers with no exchange. - To be able to subtract a two-digit number with no exchange. - To be able to add numbers across 10-100. - To be able to subtract numbers across 10-100.
	Autumn 1 W5	- To be able to add two and three digit numbers with exchange. - To be able to subtract two and three digit

			numbers with exchange
	Autumn 1 W6		- To be able to estimate answers - To be able to understand and apply inverse operations.
	Autumn 1 W7		**End of unit Assessment** - Addition and Subtraction
<u>Autumn 2</u> **Multiplication and Division** **Multiplication** and **Division** on the 2, 4 and 8 times tables	**Autumn 2 W1**		**Multiplication & Division** - To understand the concept of equal groups. - To be able to use arrays. - To understand multiples of two.
	Autumn 2 W3		- To be able to multiply 5 and 10. - To be able to share and regroup.
	Autumn 2 W4		- To be able to multiply by 3. - To be able to divide by 3. - To know the 3 times table.
	Autumn 2 W5		- To be able to multiply by 4. - To be able to divide by 4. - To know the 4 times table.
	Autumn 2 W6		- To be able to multiply by 8. - To be able to divide by 8. - To know the 8 times table.
	Autumn 2 W7		- To be able to carry out and understand practical activities involving multiplication and division

	Autumn 2 W8	- To know and be able to multiply and divide the 2, 4 and 8 times table. - **End of term Assessment**

Key Stage 3 - group 2		
Place Value and Number Facts	Autumn 1 W1	Representing numbers to 1000 *Extension: Representing numbers to 10,000*
	Autumn 1 W2	Partitioning numbers to 1000 Comparing and Ordering numbers *Extension: Partitioning numbers to 10,000*
	Autumn 1 W3	Finding 1, 10, 100 and 1000 more or less
	Autumn 1 W4	100 into equal parts: 10, 20, 25, 50
	Autumn 1 W5	Reading Scales Assessment (Place Value)
	Autumn 1 W6	Number bonds to 10 *Extension: Number bonds surrounding 10* Number facts (addition and subtraction) scaled by 10
	Autumn 1 W7	Multiplication tables Recap!
Number Facts	Autumn 2 W1	Multiplication tables continued Division Facts
	Autumn 2 W2	Number facts (addition and subtraction) scaled by 100 Assessment (Number Facts)

	Autumn 2 W3	Column Addition Column Subtraction
	Autumn 2 W4	Column Subtraction Calculating Complements to 100
	Autumn 2 W5	Addition problems - Part/Whole Assessment (Addition and Subtraction)
	Autumn 2 W6	Multiplication and Division Structures (Arrays)
	Autumn 2 W7	Multiplying and Dividing by 10
	Autumn 2 W8	Multiplying and Dividing by 100 (Recap)

Key stage 3 - group 3

Number	**Autumn 1 W1**	Revisit previous learning - what do we already know?
	Autumn 1 W2	Read and write numbers up to 1,000,000 Comparing and ordering
	Autumn 1 W3	Read and write numbers up to 10,000,000 Comparing and ordering
	Autumn 1 W4	Powers of 10Understanding the location of any numbers with up to 2 decimal places.
	Autumn 1 W5	Number lines marked in units of 1 with 2, 4, 5 and 10 equal parts
	Autumn 1 W6-w7	Revision Problem Solving End of block assessment

Number	**Autumn 2 W1**	Multiplying and dividing Decimals, Multiplying and dividing by powers of 10 -reasoning
	Autumn 2 W2	Rounding and estimating with decimals Ordering Decimals
	Autumn 2 W3	Reading scales Convert between units of measures
Number Facts	**Autumn 2 W4**	multiplication and division facts
	Autumn 2 W5	Scaling number facts by 0.1 or 0.01
Number and Number Facts	**Autumn 2 W6**	Problem Solving
	Autumn 2 W7	Revision and Asssessments
Time,measurement,money	**Autumn 2 W8**	Revision

Key stage 4 - Entry Level Certificate group		
Component 1 Properties of number	**Autumn 1 W1**	Read write and order numbers up to 100/1000 Order and compare numbers up to 100/1000
	Autumn 1 W2	Recognise place value in 2 and 3 digit numbers Recognise and use multiples of 2, 3, 4, 5, 8, 10, 50 and 100
	Autumn 1 W3	Round numbers less than 1,000 to the nearest 10 Round numbers less than 1,000 to the nearest 100

	Autumn 1 W4	Recognise odd and even numbers Add 10/100 to any given number
Component 2 **The four operations**	Autumn 1 W5	Recap Column addition & word problems/ Recap Column subtraction & word problems
	Autumn 1 W6	Addition and subtraction word problems - Interpreting correct information
	Autumn 1 W7	Addition and subtraction - inverse operations (recap)
	Autumn 2 W1	Recap column multiplication
	Autumn 2 W2	Recap short division
Component 3 **Ratio**	Autumn 2 W3	Multiplication and division word problems - Interpreting correct information
	Autumn 2 W4	Identify or show unit fractions up to one tenth of a quantity up to 100
	Autumn 2 W5	Finding fractions of an amount
	Autumn 2 W6	Identify or show any number of thirds, quarters, fifths or tenths of a quantity
	Autumn 2 W7	Recognise equivalent fractions

Key Stage 4 - Functional skills group

Use of number and the number system	**Autumn 1 W1**	Ordering and Comparing Numbers Multiplying and Dividing by 10,100,1000
	Autumn 1 W2	Positive and Negative numbers Squares and Square Roots

		Order of Operations
	Autumn 1 W3	Forming expressions Substituting into formulae
	Autumn 1 W4	Rounding to Decimal Places Rounding to Significant Figures Estimation and Approximation
	Autumn 1 W5	Fractions - Simplifying - Comparing, Mixed numbers - Fraction Arithmetic - Fraction of a Quantity - Converting
	Autumn 1 W6	- Fraction of a Quantity - Ordering and comparing Decimals
	Autumn 1 W7	Decimals - Decimal Arithmetic End of Term assessment
Use of number and the number system and Algebra: expressions and formulae	**Autumn 2 W1**	Percentages - Finding a percentage of a quantity - Percentage increase/decrease
	Autumn 2 W2	- Simple and Compound interest - Converting between fractions, decimals and percentages
	Autumn 2 W3	- Exam style question practice on Number topic
	Autumn 2 W4	- Algebraic Conventions: like terms, indices rules - Forming algebraic expressions and equations
	Autumn 2 W5	- Substitution into algebraic expressions and equations - Expanding expressions

	Autumn 2 W6	- Factorising expressions - Rearranging formulae
	Autumn 2 W7	- Solving equations - Exam question practice
	Autumn 2 W8	- Recap/Assessment

Key Stage 4 - GCSE group		
Multiplicative Reasoning	Autumn 1 W1	Direct and Inverse proportion introduction
	Autumn 1 W2	Direct and inverse proportion problem-solving
	Autumn 1 W3	Ratio and proportion
	Autumn 1 W4	Ratio problem-solving
Algebra revision	Autumn 1 W5	Algebra revision
Linear Equations and Graphs	Autumn 1 W6	Linear equations and graphs
	Autumn 1 W7	Linear equations and graphs
Simultaneous Equations	Autumn 2 W1	Solving S.E manually and graphically
Quadratic Equations and Graphs	Autumn 2 W2	Expanding , Factorising and solving quadratics
	Autumn 2 W3	Quadratic, cubic and reciprocal graphs
Indices and standard form.	Autumn 2 W4	Indices
	Autumn 2 W5	Standard form
HCF/LCM	Autumn 2 W6	Prime factorisation, HCF/LCM
Fractions, decimals,	Autumn 2 W7	Fractions, decimals, percentages

percentages	Autumn 2 W8	Converting between FDP