	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	**Algebraic Thinking**						**Place Value and Proportion**					
	Sequences	Understanding and using algebraic notation			Equality and equivalence		Place value and ordering integers and decimals			Fraction, decimal and percentage equivalence		
Spring	**Applications of Number**						**Directed Number**			**Fractional Thinking**		
	Solving problems with addition & subtraction			Solving problems with multiplication and division			Four operations with directed number			Addition and subtraction of fractions		
Summer	**Lines and Angles**						**Reasoning with Number**					
	Constructing, measuring and using geometric notation			Developing geometric reasoning			Developing number sense		Sets and probability		Prime numbers and proof	

WRM – Year 7 Autumn Term

Autumn 1 – Algebraic Thinking

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Exploring sequences • Describe and continue sequences in diagram and number forms, both linear and non-linear	**Understanding and using algebraic notation** • Using single function machines and series of two function machines with numbers, bar models and letters • Forming and substituting into expressions, including generating sequences. • Representing functions graphically			**Equality and equivalence** • Understanding equality and fact families • Forming and solving one-step equations • Understanding equivalence • Collecting like terms	

Notes/Links/Interleaving
- Use of calculator throughout, including informal estimation
- All revisited and extended in the next unit

Additional Higher Content
This introductory unit is designed to be accessed by all students – exemplification documents will illustrate tasks suitable for students of different levels of prior attainment.

Autumn 2 – Place Value and Proportion

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Place value and ordering • Describe and continue sequences in diagram and number forms, both linear and non-linear • Integer place value up to one billion • Decimal place value to hundredths • Working out and using number lines • Comparing and ordering numbers • The range and the median • Rounding to positive powers of ten and to one significant figure			**Fraction, decimal and percentage equivalence** • Representing tenths and hundredths on diagrams and number lines • Interchanging between fractions, decimals and percentages for multiples of tenths and quarters • Interpreting pie charts • Equivalent fractions • Converting between any fraction, decimal and percentage		

Notes/Links/Interleaving
- Revisit simplifying and equations with negatives
- Equations with fractions, including fractional coefficients
- Revisit FDP equivalence
- Fractional sequences

Additional Higher Content
- Negative square roots
- Add and subtract fractions with any denominators
- Add and subtract simple algebraic fractions

WRM – Year 7 Spring Term

Spring 1 – Application of Number

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6

Addition and Subtraction

- Use formal methods of addition with integers and decimals
- Solve problems in the context of perimeter, money and frequency trees and tables
- Solve problems in the context of perimeter, money and frequency trees and tables

Multiplication and division

- Multiplying by 10, 100 and 1000; unit conversions
- Formal methods of multiplication and division
- HCF and LCM
- Areas of triangles, rectangles and parallelograms
- Finding the mean
- Finding fractions and percentages of amounts
- Solving two-step equations (with and without a calculator)
- Introduction to the order of operations

Notes/Links/Interleaving

- Perimeter problems to revisit equations and simplifying
- Tables to include distance charts and simple timetables
- Revisit rounding
- Choosing when to use mental, written or calculator methods
- Order of operations to be revisited with negative numbers

Additional Higher Content

- Addition in standard form
- Area of a trapezium
- Algebraic HF/LCM
- Algebraic Area
- Improper fractions

Spring 2 – Directed Number and Fractional Thinking

Week 2	Week 2	Week 3	Week 4	Week 5	Week 6

Negative Numbers

- Ordering directed numbers with and without context
- Revisit four operations to include directed number
- Using a calculator with directed number
- Order of operations

Adding and subtracting fractions

- Representing tenths and hundredths on diagrams and number lines
- Adding/subtracting fractions with a common denominator, including with answers above one
- Revisit equivalent fractions
- Adding and subtracting fractions with simple different denominators e.g. quarters/eighths, thirds/sixths
- Mixed questions e.g. $\frac{3}{4} + 0.2$

Notes/Links/Interleaving

- Include inequality number lines
- Revisit sequences, substitution and equations

Additional Higher Content

- Exploring and using standard index form
- Exploring fractions above one

WRM – Year 7 Summer Term

Summer 1 – Lines and angles

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6

Drawing, measuring and notation

- Drawing and measuring lines and angles using ruler and protractor
- Understanding and using notation for lines and angles
- Understand parallel and perpendicular
- Recognise types of triangle, quadrilateral and other polygons
- Drawing triangles given SSS, SAS, ASA
- Drawing and interpreting pie charts

Geometric Reasoning

- Calculating using angles at a point, angles on a straight line and vertically opposite angles
- Calculating missing angles in triangles and quadrilaterals

Notes/Links/Interleaving

- Perimeter problems to revisit equations and simplifying
- Forming and solving equations in geometric settings (including simplifying)
- Revisiting formal methods of addition and subtraction, including with decimals

Additional Higher Content

- Addition in standard form
- Parallel lines rules
- Angles in a polygon
- Proof of angles rules e.g. angles in a triangle

Summer 2 – Reasoning with number

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6

Number Sense

- Mental arithmetic strategies
- Using known facts to derive other facts, including algebraic expressions

Sets and Probability

- Understanding and using set notation
- Venn diagrams
- Probability of a single event

Prime numbers and proof

- Types of number, including prime factorisation
- Powers and roots
- Using counterexamples

Notes/Links/Interleaving

- Revisiting FDP
- Revisiting expressions e.g. given $7n = 150$ what is the value of $21n$?

Additional Higher Content

- Venn diagrams for HCF and LCM