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| **Term**  | **INTENT** | **IMPLEMENTATION** | **IMPACT**  |
| **Substantive Knowledge**This is the specific, factual content for the topic, which should be connected into a careful sequence of learning. | **Disciplinary Knowledge (Skills)**This is the action taken within a particular topic in order to gain substantive knowledge. | **Assessment opportunities**What assessments will be used to measure student progress?Evidence of how well students have learned the intended content. |
| **Autumn Term****1A****Year 7**  | **Intent** | Chapter 1: Positive Real Numbers• Recognise the place values of an integer• Round a number to the nearest 10, 100 or 1000• Add, subtract, multiply and divide two positive integers• Relate addition and subtraction• Relate multiplication and division• Understand the meaning of square, cube, square rootand cube root of a number• Understand index notation• Apply the order of operations in calculations• Use calculators to apply operations• Identify multiples and factors of a number• Apply the above concepts to solve daily life problemsChapter 2: Negative Real Numbers• Recognise the use of negative numbers in the real world• Represent numbers on a number line• Identify integers and perform the four operations on them | * Year 7 baseline test
* In class teacher assessment through Q&A
* End of chapter mini test (with peer marking)
* Chapter revision exercise via textbook
* End of term review exercises via textbook
* End of term formal assessments
* Mastery homework with use of mymaths.co.uk
* Mymaths topic codes:

1.1: 1931, 1352, 18401.2: 1020, 1908, 19861.3: 1028, 1908, 19861.4: 1914, 1916, 17741.5: 1905, 1917, 1041, 17751.6: 10531.7: 1167, 1932, 19331.8: 1035, 10322.1: 1069, 17762.2: 10682.3: 1068 |
| Chapter 1: Positive Real Numbers* + Place values and rounding integers
	+ 1.2 Addition
	+ 1.3 Subtraction
	+ 1.4 Multiplication
	+ 1.5 Division
	+ 1.6 Index notation square roots & cube roots
	+ 1.7 Order of operations & using a calculator
	+ 1.8 Factors and multiples

Chapter 2: Negative Real Numbers* 2.1 Negative numbers and the number line
* 2.2 Addition and subtraction of integers
* 2.3 Multiplication, division, and combined operations of integers
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| **Autumn Term****1B****Year 7**  | **Intent**  | Chapter 3: Introduction to Algebra• Use letters to represent integers• Interpret simple algebraic notations• Substitute integers into simple expressions and formulae• Write simple expressions and formulae• Simplify expressions by collecting like terms• Add and subtract linear expressions• Expand a single bracketChapter 4: Simple Equations• Understand the concept of equations and balancing• Solve simple equations in one variable• Solve simple equations involving brackets• Write simple equations in one variable to solve problems | * In class teacher assessment through Q&A
* End of chapter mini test (with peer marking)
* Chapter revision exercise via textbook
* End of term review exercises via textbook
* End of term formal assessments
* Mastery homework with use of mymaths.co.uk
* Mymaths topic codes:

3.1: 1982, 1158, 11793.2: 1187, 11863.3: 11583.4: 11793.5: 11793.6: 1247, 11504.1: 1925, 11544.2: 1925, 19284.3: 1158 |
| Chapter 3: Introduction to Algebra* 3.1 Letters to Represent Integers
* 3.2 Substituting Numbers for Letters
* 3.3. Writing Algebraic Expressions and Formulae
* 3.4 Like Terms and Unlike Terms
* 3.5 Addition and Subtraction of Linear Expressions
* 3.6 Expressions with Brackets

Chapter 4: Simple Equations* 4.1 Equations in One Variable
* 4.2 Equations in One Variable with Brackets
* 4.3 Writing Equations to Solve Problems
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| **Spring Term****2A****Year 7**  | **Intent**  | Chapter 5: Fractions• Use fraction notation and express one quantity as a fraction of another• Convert between improper fractions and mixed numbers• Identify equivalent fractions, simplify fractions and compare fractions• Find the reciprocal of a number• Perform the four operations on fractions and on mixed numbers• Calculate fractions of quantities• Apply fractions in practical situations• Identify fractions as rational numbers | * In class teacher assessment through Q&A
* End of chapter mini test (with peer marking)
* Chapter revision exercise via textbook
* End of term review exercises via textbook
* End of term formal assessments
* Mastery homework with use of mymaths.co.uk
* Mymaths topic codes:

5.1: 1220, 1062, 10195.2: 1042, 1075, 17715.3: 1017, 10745.4: 1841, 1046, 1768, 1047, 1769, 10745.5: 1046, 1040, 10745.6: 1933 |
| Chapter 5: Fractions* 5.1 Quantities as Fractions
* 5.2 Equivalent Fractions and Comparing Fractions
* 5.3 Addition and Subtraction of Fractions and Mixed Numbers
* 5.4 Multiplication of Fractions
* 5.5 Division of Fractions and Mixed Numbers
* 5.6 Rational Numbers and Using a Calculator
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| **Spring Term****2B****Year 7** | **Intent**  | Chapter 6: Decimals• Interpret decimals and write decimals in order of size• Round decimals to the nearest integer• Use the four operations with decimals• Convert between units of measure• Convert between decimals and fractions• Solve real-life problems using decimals• Identify recurring decimals and real numbersChapter 7: Percentages• Define percentage as ‘number of parts per hundred’• Interpret a percentage as a fraction or a decimal• Convert a fraction or a decimal to a percentage• Recognise percentages greater than 100%• Compare two quantities using percentages• Express one quantity as a percentage of another• Find a percentage of a quantity using multiplication• Reduce or increase a quantity by a percentage | * In class teacher assessment through Q&A
* End of chapter mini test (with peer marking)
* Chapter revision exercise via textbook
* End of term review exercises via textbook
* End of term formal assessments
* Mastery homework with use of mymaths.co.uk
* Mymaths topic codes:

6.1: 1076, 1072, 10046.2: 1380, 1381, 10076.3: 1011, 13826.4: 10086:5 1013, 10916.6: 19236.7: 1773, 1016, 10637.1: 1030, 1962, 1963, 1029, 10157.2: 1030, 1031, 1962, 19637.3: 1060, 1073, 1302 |
| Chapter 6: Decimals* 6.1 Place values, ordering and rounding of decimals numbers
* 6.2 Addition and subtraction of decimals
* 6.3 Multiplication of decimals
* 6.4 Division of a decimal by a whole number
* 6.5 Mental calculation and conversion between units
* 6.6 Division of a decimal by a decimal
* 6.7 Rational numbers and real numbers

Chapter 7: Percentages* 7.1 Meaning of a percentage
* 7.2 Percentage of a quantity
* 7.3 Reducing and increasing a quantity by a percentage
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| **Summer Term****3A****Year 7** | **Intent**  | Chapter 8: Angles, Parallel Lines & Triangles• Describe a point, a line, a line segment, a ray, and a plane• Construct lines, line segments and angles using geometry software• Identify different types of angles• Recognise the properties of vertically opposite angles, angles on a straight line and angles at a point• Recognise the properties of angles formed by parallel lines and transversals• Find unknown marked angles in a diagram using the above properties• Classify triangles based on their sides and angles• Understand the general properties of sides and angles of a triangle• Construct triangles where three sides are givenChapter 9: Transformations, Symmetry and Congruence• Translate, rotate and reflect 2D shapes• Describe transformations in vector form• Combine transformations• Recognise and describe reflection symmetry of 2D shapes• Recognise and describe rotation symmetry of 2D shapes• Understand the idea of congruence• Match the sides and angles of two congruent shapesChapter 10: Perimeter and Area of Triangles and Circles• Find the perimeter and area of a triangle• Find the circumference and area of a circle• Find the perimeter and area of a semicircle and a quarter of a circle• Find a length given the perimeter or area of a shape• Solve problems involving perimeters and areas of composite plane figures formed by rectangles, squares, triangles and circles | * In class teacher assessment through Q&A
* End of chapter mini test (with peer marking)
* Chapter revision exercise via textbook
* End of term review exercises via textbook
* End of term formal assessments
* Mastery homework with use of mymaths.co.uk
* Mymaths topic codes:

8.1: n/a8.2: 1081, 1847, 1989, 1990, 10828.3: 11098.4: 1130, 1082, 10909.1: 1843, 1127, 1113, 1115, 18399.2: 1230, 1114, 11169.3: 114810.1: 1110, 112910.2: 108810.3: 108310.4: 1129, 1088, 1083 |
| Chapter 8: Angles, Parallel Lines & Triangles* 8.1 Points, lines, and angles
* 8.2 Angles
* 8.3 Parallel lines and transversals
* 8.4 Triangles

Chapter 9: Transformations, Symmetry and Congruence* 9.1 Transformations
* 9.2 Symmetry
* 9.3 Congruence

Chapter 10: Perimeter and Area of Triangles and Circles* 10.1 Perimeter and Area of a Triangle
* 10.2 Circumference of a Circle
* 10.3 Area of a Circle
* 10.4 Perimeter and Area Problems
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| **Summer Term****3B****Year 7** | **Intent**  | Chapter 11: Surface Area and Volume of Cuboids, including Cubes• Draw nets of cuboids, including cubes• Calculate the surface area of cuboids, including cubes• Calculate the volume of cuboids, including cubes• Solve problems involving volume and surface area of cuboids, including cubesChapter 12: Collecting, Organising & Displaying Data• Recognise different methods of collecting data• Identify and write appropriate survey questions• Organise data• Create frequency tables• Construct, analyse and interpret pictograms, vertical line charts, bar charts and compound bar charts | * In class teacher assessment through Q&A
* End of chapter mini test (with peer marking)
* Chapter revision exercise via textbook
* End of term review exercises via textbook
* End of term formal assessments
* Mastery homework with use of mymaths.co.uk
* Mymaths topic codes:

11.1: 1106, 110711.2: 110711.3: 113712.1: 1248, 124912.2: 1385, 1235, 119312.3: 1193, 1205 |
| Chapter 11: Surface Area and Volume of Cuboids, including Cubes* 11.1 Nets of Cuboids, including Cubes
* 11.2 Surface Area of Cuboids, including Cubes
* 11.3 Volumes of Cuboids, including Cubes

Chapter 12: Collecting, Organising & Displaying Data* 12.1 Collection of Data
* 12.2 Organisation of Data
* 12.3 Pictograms, Vertical Line Charts and Bar Charts
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