Autumn Term

Year 6 – Place Value

Step 1 Numbers to 1,000,000

Step 2 Numbers to 10,000,000

Step 3 Read and write numbers to 10,000,000

Step 4 Powers of 10

Step 5 Number line to 10,000,000

Step 6 Compare and order any integers

Step 7 Round any integer

Step 8 Negative numbers

Year 6 – Addition, subtraction, multiplication and division

Step 1 Add and subtract integers

Step 2 Common factors

Step 3 Common multiples

Step 4 Rules of divisibility

Step 5 Primes to 100

Step 6 Square and cube numbers

Step 7 Multiply up to a 4-digit number by a 2-digit number

Step 8 Solve problems with multiplication

Step 9 Short division

Step 10 Division using factors

Step 11 Introduction to long division

Step 12 Long division with remainders

Step 13 Solve problems with division

Step 14 Solve multi-step problems

Step 15 Order of operations

Step 16 Mental calculations and estimation

Step 17 Reason from known facts

Year 6 – Fractions A

Step 1 Equivalent fractions and simplifying

Step 2 Equivalent fractions on a number line

Step 3 Compare and order (denominator)

Step 4 Compare and order (numerator)

Step 5 Add and subtract simple fractions

Step 6 Add and subtract any two fractions

Step 7 Add mixed numbers

Step 8 Subtract mixed numbers

Step 9 Multi-step problems

Year 6 – Fractions B

Step 1 Multiply fractions by integers

Step 2 Multiply fractions by fractions

Step 3 Divide a fraction by an integer

Step 4 Divide any fraction by an integer

Step 5 Mixed questions with fractions

Step 6 Fraction of an amount

Step 7 Fraction of an amount – find the whole

Year 6 – Converting units

Step 1 Metric measures

Step 2 Convert metric measures

Step 3 Calculate with metric measures

Step 4 Miles and kilometres

Step 5 Imperial measures

Spring Term

Year 6 – Ratio

Step 1 Add or multiply?

Step 2 Use ratio language

Step 3 Introduction to the ratio symbol

Step 4 Ratio and fractions

Step 5 Scale drawing

Step 6 Use scale factors

Step 7 Similar shapes

Step 8 Ratio problems

Step 9 Proportion problems

Step 10 Recipes

Year 6 – Algebra

Step 1 1- step function machines

Step 2 2- step function machines

Step 3 Form expressions

Step 4 Substitution

Step 5 Formulae

Step 6 Form equations

Step 7 Solve 1- step equations

Step 8 Solve 2- step equations

Step 9 Find pairs of values

Step 10 Solve problems with two unknowns

Year 6 – Decimals

Step 1 Place value within 1

Step 2 Place value – integers and decimals

Step 3 Round decimals

Step 4 Add and subtract decimals

Step 5 Multiply by 10, 100 and 1000

Step 6 Divide by 10, 100 and 1000

Step 7 Multiply decimals by integers

Step 8 Divide decimals by integers

Step 9 Multiply and divide decimals in context

Year 6 – Fractions, decimals and percentages

Step 1 Decimal and fraction equivalents

Step 2 Fractions as division

Step 3 Understand percentages

Step 4 Fractions to percentages

Step 5 Equivalent fractions, decimals and percentages

Step 6 Order fractions, decimals and percentages

Step 7 Percentage of an amount – one step

Step 8 Percentage of an amount – multi step

Step 9 Percentage – missing values

Year 6 – Area, perimeter and volume

Step 1 Shapes – same area

Step 2 Area and perimeter

Step 3 Area of a triangle – counting squares

Step 4 Area of a right-angled triangle

Step 5 Area of any triangle

Step 6 Area of a parallelogram

Step 7 Volume – counting cubes

Step 8 Volume of a cuboid

Year 6 – Statistics

Step 1 Line graphs

Step 2 Dual bar charts

Step 3 Read and interpret pie charts

Step 4 Pie charts with percentages

Step 5 Draw pie charts

Step 6 The mean

Summer Term

Year 6 – Shape

Step 1 Measure and classify angles

Step 2 Calculate angles

Step 3 Vertically opposite angles

Step 4 Angles in a triangle

Step 5 Angles in a triangle – special cases

Step 6 Angles in a triangle – missing angles

Step 7 Angles in quadrilaterals

Step 8 Angles in polygons

Step 9 Circles

Step 10 Draw shapes accurately

Step 11 Nets of 3D shapes

Year 6 – Position and direction

Step 1 The first quadrant

Step 2 Read and plot points in four quadrants

Step 3 Solve problems with coordinates

Step 4 Translations

Step 5 Reflections