Autumn term

Multiply integers and decimals by 10, 100 and 1000
Divide integers by 10, 100, 1000, and divide decimals by 10, 100
Derive quickly multiplication and division facts
Express a quotient as a fraction or as a decimal
Odd and even numbers
Find common multiples; find the smallest common multiple
2D shapes properties, incl. parallelogram, rhombus, trapezium
Classifying quadrilaterals
Constructing and using grouped frequency tables
Drawing and interpreting bar graphs using grouped data
Use & convert betw Metric units of length; understand imperial units
Use & convert betw Metric units of weight; understand imperial units
Using a protractor to measure and draw acute and obtuse angles
Calculate angles in a triangle
Add and subtract near multiples of 10, 100 and 100
Mental subtraction strategies
Doubling and halving multiples of 10 to 1000 and 100 to 10 000
Multiplying using doubling and halving
Changing an improper fraction to a mixed number, and vice versa
Converting, reducing, comparing and ordering fractions
Spring term

Rounding to the nearest 10, 100 or 1000
Rounding decimals to the nearest whole number or tenth
Use decimal notation up to hundredths; order a set of decimals
Find all pairs of factors of any number up to 100
Multiplication: partitioning
Multiplication: using close facts
Read and plot co-ordinates in all quadrants
Properties of 3D shapes; visualise 3D shapes from 2D drawings
Calculate the area of rectangles and compound shapes
Calculate the area of a right-angled triangle
Averages: mean, median and modes
Construct and interpret conversion graphs
Adding and subtracting decimals
Adding two or more numbers < 10 000, standard written methods
Square numbers to at least 12 x 12
Recognise and extend number sequences, incl. triangular numbers
Multiply ThHTU x U using standard methods
Use a fraction as an operator to find fractions of amounts
Order fractions and decimals; convert fraction to decimal using division
Know and apply tests of divisibility
Summer term

Order, find the difference between positive and negative numbers
Find simple percentages; express simple fractions as percentages
Multiply HTU x TU using standard written methods
Multiply U.t x U and U.th x U using standard written methods
Adding two decimal numbers using standard column addition
Subtraction of two numbers < 10 000, standard written methods
Subtracting two decimal numbers using standard written methods
Use & convert betw. metric units of capacity; understand imperial
Recognise events that are equally likely; probability scale
Begin to interpret a pie chart
Calculate perimeters of rectangles and compound shapes
Relationships between units of time; time zones around the world
Reflection in up to two mirror lines
Rotation and translation
Divide HTU ÷ U using standard written methods
Divide TU.t ÷ U using standard written methods
Understand the concept of proportion
Relate ratio to proportion; solve simple problems-ratio/proportion
Recognise prime numbers to at least 20
Factorise numbers up to 100 into prime factors