	Autumn Term	Spring Term	Summer Term
Year 6	Place value to include numbers to	<b>Decimals</b> to include multiplying by	Properties of Shapes to include
	1,000,000	10, 100 and 1,000	measuring with a protractor
	Numbers to 10,000,000	Dividing by multiples of 10, 100 and	Drawing shapes accurately
	Number line to 10,000,000	100	Angles in triangles
	Comparing and ordering numbers to	Decimals as fractions	Angles in Polygon
	10,000,000	Fractions as decimals	Vertically opposite angles
	Rounding numbers	Multiplying fractions	Equal distance
	Negative numbers	Dividing decimals	Parts of a circle
	Four Operations to include problem	Percentages to include identifying	Nets
	solving – using written methods of	common factors, common multiples	Number – number and place value
	addition and subtraction	and prime numbers	to include problem solving
	Multiplying numbers of up to 4	Use their knowledge of the order of	Problem solving – place value
	digits by a 1-digit	operations to carry out calculations	Problem solving – negative numbers
	Multiplying numbers of up to 4	involving the 4 operations	Problem solving – addition and
	digits by a 2-digit	Solve addition and subtraction	subtraction
	Dividing numbers of up to 4 digits	multi-step problems in contexts,	Problem solving – four operations
	by a 2-digit	deciding which operations and	Problem solving – fractions
	Common factors	methods to use and why	Problem solving – decimals
	Common multiples	Algebra to include using estimation	Problem solving – percentages
	Recognising prime numbers up to	to check answers to calculations and	Problem solving – ratio and
	100	determine, in the context of a	proportion
	Squares and cubes	problem, in an accurate degree of	Problem solving – time
	Order of operations	accuracy	Problem solving – position and
	Brackets	Measurement to include metric	direction
	Mental calculations	units	Problem solving – properties of
	Reasoning from known facts	Converting metric measures	shapes
	Fractions to include simplifying	Problem solving – metric measures	SATS Testing
	fractions	Miles and km	Statistics to include the mean
	Fractions on a number line	Imperial measures	Introducing pie charts
	Comparing and ordering fractions	Shapes with the same area	Reading and interpreting pie charts
	Adding and subtracting fractions	Area and perimeter	Fractions and pie charts



	Problem solving – adding and	Areas of a parallelogram	Percentages and pie charts
	subtracting fractions	Area of a triangle	Interpreting line graphs
	Multiplying a fraction	Problem solving –area	Constructing line graphs
	Dividing a fraction	Problem solving – perimeter	Constructing line graphs
	Calculating fractions	Volume of a cuboid	
	Geometry – position and direction	Ratio to include multiplying simple	
	to include plotting coordinates	pairs of proper fractions, writing the	
	Plotting translations and reflections	answer in its simplest form	
	Reasoning about shapes with	Divide proper fractions by whole	
	coordinates	numbers	
	PIXL Testing	Scale drawings	
	TIME TOSTING	Scale factors	
		Similar shapes	
		Problem solving – ratio and	
		proportion	
		PIXL Testing	
Year 7	Using numbers to include	Algebra to include expressions and	Symmetry to include line symmetry
	Timetable, charts and money	substitution	Rotational symmetry
	Positive and negative numbers	Simplifying expression	Reflections
	Adding negative numbers	Using formulae	Tessellations
	Subtracting negative numbers	Writing formulae	Equations to include finding
	Sequences to include function	Fractions to include equivalent	unknown numbers
	machine	fractions	Solving equations
	Sequences and rules	Comparing fractions	Solving more complex equations
	Finding missing terms	Adding and subtracting fractions	Setting up and solving equations
	Other sequences	Mixed numbers and improper	Interpreting Data to include Pie
	Perimeter, Area and Volume to	fractions	Charts
	include Perimeter and area,	Adding and subtracting mixed	Comparing mean and range
	Perimeter and area of Rectangles	numbers	Statistical surveys
	Perimeter and area of compound	Angles to include measuring and	Assessment 5
	shapes	drawing angles	<b>3D shapes</b> to include naming and
	Volume of cubes and cuboids	Calculating angles	drawing 3D shapes
	Assessment of 1	Angles in a triangle	Using nets to construct 3D shapes



	Decimals to include multiplying and dividing by 10, 100 and 1000. Ordering decimals Estimates Adding and subtracting decimals Multiplying and Dividing decimals Working with numbers to include square numbers and square roots Rounding Order of operations Long and short multiplications Long and short division Calculations with measurements Statistics to include mode, median and range The mean Statistical diagrams Collecting and using data Grouped frequency Data collection	Angles in a quadrilateral Properties of triangles and quadrilateral Assessment 3 Coordinates and Graphs to include Coordinates Graphs from relationships Graphs for fixed values of x or y Graphs of the form y = a x Graphs of the form x + y = a Percentages to include fractions, decimals and percentages Fractions of a quantity Percentages of a quantity Percentages with a calculator Percentage increases and decreases Probability to include probability words Probability scales Experimental probability	3D investigations Ratio to include introduction to ratios Simplifying ratios Ratios and sharing Solving problems Assessment 6
Year 8	Assessment 2  Working with numbers to include	Assessment 4  Area of 2D and 3D shapes to	Fractions and decimals to include
	multiplying and dividing negative numbers Factors and highest common factors (HCF) Lowest common multiple (LCM)	include the area of a triangle Area of a parallelogram Area of a trapezium Surface area of cubes and cuboids Graphs to include Graphs from	Adding and Subtracting fractions Multiplying fractions and integers Dividing with integers and fractions Multiplication with large and small numbers
	Powers and roots Prime factors Geometry to include angles in parallel lines	linear equations Gradient (steepness) of a straight line Graphs from quadratic equation	Division with large and small numbers  Proportion and circles to include direct proportion



The geometric properties of quadrilaterals

**Rotations** 

Translations

Constructions

Assessment 1

**Probability** to include probability scales

Mutually exclusive outcomes Using a sample space to calculate probabilities

Estimates of probability

**Percentages** to include calculating percentages

Calculating percentage increases and decreases

Calculating a percentage change

**Sequences** to include using flow diagrams to generate sequences The nth term of a sequence

Working out the nth term of a sequence

The Fibonacci sequence

**Assessment 2** 

Real-life graphs

**Simplifying numbers** to include

powers of 10

Large numbers and rounding

Significant figures

Standard form with large numbers Multiplying with numbers in

standard form

Assessment 3

**Interpreting data** to include pie

charts

Creating pie charts

Scatter graphs and correlation

Creating scatter graphs

Algebra to include algebraic

notation

Like terms

**Expanding brackets** 

Using algebraic expressions

Using index notations

Congruence and scaling to include

congruent shapes

Enlargements

Scale and ratio

Scales

Assessment 4

Graphs and direct proportion

Inverse proportion

Comparing direct proportion and

inverse proportion

The circumference of a circle

Formula for the circumference of a circle

Formula for the area of a circle

Assessment 5

**Equations and formulae** to include

equations with brackets

Equations with the variable on both

sides

More complex equations

Rearranging formulae

Comparing data to include grouped

frequency tables

Drawing frequency diagrams

Comparing data

Which average to use

Assessment 6

