Year 7	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content	**Sequences** - Recognize linear and non-linear sequences - Find the next term in a sequence **Algebraic Notation** - Function machines - Algebraic notation - Substitute into expressions - Represent functions graphically - Generate sequences from an algebraic rule. **Place Value and ordering** - Understand and use place value - Compare and order numbers - Round to powers of 10 and 1sf - Find the median and the range	**Equality and Equivalence** - Understand the difference between equality and equivalence - Collect like terms - Form and solve one-step equations **FDP Equivalence** - Interchange between fractions and decimals below 1 - Interchange between FDP up to 100%	**Problem solving with addition and subtraction** - BIDMAS - Use the 2 operations - Use a calculator - Solve perimeter problems - Solve problems with line charts and bar charts - Find the mean **Problem solving with multiplication and division** - Use factors and multiples - Multiply and divide by positive powers of 10 - Convert metric units - Area of rectangles, parallelogram and triangles. **Fractions and percentages of amounts** - Find fractions of amounts - Find percentages of amount using mental	**Operations and equations with directed number** - Order directed number - Use with the four operations - Algebraic notation and substitution with directed number - Collect like terms with directed number - Form and solve two step equations **Addition and subtraction of fractions** - Add and subtract including mixed numbers	**Pythagoras' Theorem** **Constructing measuring & using geometric notation** - Geometric notation - Draw lines, angles and simple shapes - Parallel and perpendicular lines - Name and construct polygons - Properties of triangles and quadrilateral - Construct and interpret pie charts **Developing Number sense** - Use known facts - Explore related algebraic expressions - Use multiplicative relationships between known facts	**Sets and Probability** - Use the language of probability - Calculate simple probabilities - Use the probability scale - Sample spaces - Understand and use set notation, including Venn diagrams - Know that the sum of probabilities is 1. **Developing Geometric reasoning** - Angles at a point - Adjacent angles on a straight line - Vertically opposite angles - Angles in triangles and quadrilaterals

			and calculator methods.			
Assessment	End of topic assessments in class	End of topic assessments in class End of term assessment covering all content taught so far this year	End of topic assessments in class	End of topic assessments in class End of term assessment covering all content taught so far this year	End of topic assessments in class	End of topic assessments in class End of term assessment covering all content taught so far this year
Homework	Weekly Sparx maths homework, due every Wednesday	Weekly Sparx maths homework, due every Wednesday	Weekly Sparx maths homework, due every Wednesday	Weekly Sparx maths homework, due every Wednesday	Weekly Sparx maths homework, due every Wednesday	Weekly Sparx maths homework, due every Wednesday