Mid-Year Expectations	End of Year Expectations
Higher Prior Attainer **Algebraic Thinking.** • Students find missing numbers in a sequence. **Place Value and Proportion.** • Students write multiples of 10 as powers of 10 including negative powers of 10. • Students write positive integers and decimals in the form of A x 10n. • Students complete conversions with more difficult fractions; eights and thousandths. **Applications of Number.** • Students can multiply by 0.1 and 0.01.	**Directed Number.** • Students understand positive numbers have more than one square root. • Students work with higher powers and roots. **Fractional thinking.** • Students add and subtract simple algebraic fractions. **Reasoning with Number.** • Students use Venn Diagrams to calculate highest common factors and lowest common multiples. • Students form and test conjectures using prime and other types of number. **Lines and Angles. Find and use the angle sum of any polygon.** • Students use parallel line angle facts. • Students obtain simple proofs.

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Mid-Year Expectations		End of Year Expectations
Middle Prior Attainer	**Algebraic Thinking.** • Students recognise patterns in different types of sequences and use term-to-term rules. • Students form and simplify expressions using correct algebraic notation. • Substitute into expressions and functions. • Students draw straight-line graphs. • Students form and solve one-step linear equations. • Students understand differences between equivalence and equality. **Place Value and Proportion.** • Students use numbers to one billion and decimals to hundredths. • Students round numbers, including to one significant figure. • Students order numbers and compare using inequalities. • Students represent fractions diagrammatically and on number lines. • Students convert between fractions, decimals, and percentages. • Students work with fractions greater than one and their equivalent decimals and percentages. **Applications of Number.** • Students use formal methods of addition and subtraction, multiplication, and division and use to • Students form and solve equations. • Students calculate fractions and percentages of amounts.	**Directed Number.** • Students use directed numbers in all areas of arithmetic. • Students substitute directed numbers into algebraic formula and two-step equations. **Fractional thinking.** • Students add and subtract fractions including those with different denominators. **Reasoning with Number.** • Students simplify complex calculations and number facts and extend to algebraic facts. • Students use the equivalence of fractions, decimals, and percentages. • Students understand and use sets, set notation and listing strategies. • Students find highest common factors and lowest common multiplies using prime numbers. • Students form and test conjectures. **Lines and Angles.** • Students use rulers, protractors, and compasses to measure and construct shapes, applying such skills to the construction of pie charts. • Students understand and use mathematical notation for angles, lines of equal length and parallel lines. • Students name types of triangles, quadrilateral, and other polygons. • Students understand and use their different properties. • Students use chains of reasoning with angle facts.

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Mid-Year Expectations		End of Year Expectations
Lower Prior Attainer	**Algebraic Thinking.** • Students recognise patterns in linear and non-linear sequences and use term-to-term rules. • Students use function machines to find outputs and inputs. • Students form and simplify expressions using correct algebraic notation, recognising like-terms. • Students substitute into expressions and functions. • Students form and solve one-step linear equations. • Students recognise coordinates. • Students use fact families to show equality and like terms so show equivalence. **Place Value and Proportion.** • Students use fact families to show equality and like terms so show equivalence. • Students order whole numbers and compare using inequality signs. • Students round numbers to the nearest 10, 100 and 1000. • Students represent fractions diagrammatically and on number lines. • Students understand links between fractions, decimals and percentages and use in conversions. **Applications of Number.** • Students use formal methods of addition and subtraction, multiplication, and division. • Students calculate fractions and percentages of amounts.	**Directed Number.** • Students use directed numbers in all areas of arithmetic. • Students substitute directed numbers into simple algebraic formula and equations. **Fractional thinking.** • Students add and subtract fractions when the denominator is the same. **Reasoning with Number.** • Students use the equivalence of simple fractions, decimals, and percentages. • Students use Venn diagrams and listing strategies, • Students find highest common factors and lowest common multiplies using prime numbers. **Lines and Angles.** • Students use rulers, protractors, and compasses to measure and construct shapes. • Students understand and use mathematical notation for angles, lines of equal length and parallel lines. • Students name types of triangles, quadrilateral, and other polygons. • Students use angle facts.

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