Algebra
Age-Related Assessment Criteria

	Y5	Y6	Y7	Y8
Notation, vocabulary & manipulation	Not applicable to this age group	Not applicable to this age group	• Use and interpret algebraic notation, including: ab in place of $a \times b$, $3y$ in place of $y + y + y$ and $3 \times y$, a^2 in place of $a \times a$, a^3 in place of $a \times a \times a$, a/b in place of $a \div b$, brackets • Substitute numerical values into formulae and expressions • Understand and use the concepts and vocabulary of expressions, equations, formulae and terms • Simplify and manipulate algebraic expressions by collecting like terms and multiplying a single term over a bracket • Understand and use standard mathematical formulae	• Use and interpret algebraic notation, including: a^2b in place of $a \times a \times b$, • Substitute numerical values into scientific formulae • Understand and use the concepts and vocabulary of inequalities and factors • Simplify and manipulate algebraic expressions by taking out common factors and simplifying expressions involving sums, products and powers, including the laws of indices • Rearrange formulae to change the subject
Graphs	Not applicable to this age group	• Describe positions on the full coordinate grid (all four quadrants)	• Work with coordinates in all four quadrants	• Plot graphs of equations that correspond to straight-line graphs • Identify and interpret gradients and intercepts of linear functions • Recognise, sketch and interpret graphs of linear functions and quadratic functions
Solving equation & Inequalities	• Use the properties of rectangles to deduce related facts and find missing lengths and angles	• Express missing number problems algebraically • Find pairs of numbers that satisfy an equation with two unknowns	• Solve linear equations in one unknown algebraically	• Solve linear equations with the unknown on both sides of the equation • Find approximate solutions to linear equations using a graph
Sequences	• Recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3})	• Generate and describe linear number sequences	• Generate terms of a sequence from a term-to-term rule • Recognise and use sequences of triangular, square and cube numbers	• Generate terms of a sequence from either a term-to-term or a position-to-term rule • Deduce expressions to calculate the nth term of linear sequences.