Ashwell Primary School
Maths Curriculum
Algebra – Skills & Knowledge Progression

YEAR 6 – Algebra

Core knowledge to be acquired:	Key Vocabulary (in addition to previous year group):
- Express missing number problems algebraically. - Use simple formulae. - Generate and describe linear number sequences. - Find pairs of numbers that satisfy an equation with two unknowns. - Enumerate possibilities of combinations of two variables.	formula(e), equation, unknown, variable.
Prior knowledge / skills this builds on:	**What comes next:**
See Number, Place Value, Four Operations Skills and Knowledge Progression document	Key Stage 3: Algebra - use and interpret algebraic notation - substitute numerical values into formulae and expressions - understand and use the concepts and vocabulary of expressions, equations, inequalities, terms and factors - simplify and manipulate algebraic expressions to maintain equivalence - understand and use standard mathematical formulae; rearrange formulae to change the subject - model situations or procedures by translating them into algebraic expressions or formulae and by using graphs - use algebraic methods to solve linear equations in one variable - work with coordinates in all four quadrants - recognise, sketch and produce graphs of linear and quadratic functions - interpret mathematical relationships both algebraically and graphically - reduce a given linear equation in two variables to the standard form $y = mx + c$; - calculate and interpret gradients and intercepts of graphs - use linear and quadratic graphs to estimate values of y for given values of x and vice versa and to find approximate solutions of simultaneous linear equations - find approximate solutions to contextual problems from given graphs of a variety of functions - generate terms of a sequence from either a term-to-term or a position-to-term rule - recognise arithmetic sequences and find the nth term - recognise geometric sequences and appreciate other sequences that arise.