

Half term 4	Key vocabulary
<p><u>Quadratic functions</u></p> <ul style="list-style-type: none"> • Sketch graphs of quadratics functions, considering orientation and labelling the point of intersection with the y axis, considering what happens to y for large positive and negative values of x [maths watch clip 99] • Find approximate solutions of a quadratic equation from the graph of the corresponding function [maths watch clip 160] <p>Revision of:</p> <p><u>Basic algebraic manipulation</u></p> <ul style="list-style-type: none"> • Know the meaning of the words variable, expression, equation, formulae and identity [maths watch clip 7] • Collect like terms [maths watch clips 33, 34, 35] • Expand and simplify linear brackets [maths watch clip 134a] • Factorise an algebraic expression into a single bracket [maths watch clip 94] • Substitute into, simplify and use algebraic expressions [maths watch clip 95] • Change the subject of a formula where the subject only appears once [maths watch clip 136] • Write an algebraic expression [maths watch clip 137] 	<p>Quadratic function intersection approximate equation formula identity substitute expand factorise linear term indices powers solve variable Inequality inclusive exclusive linear solve</p>
	<p>Key ideas</p>
<p><u>Indices and standard form</u></p> <ul style="list-style-type: none"> • Write a number as a power of another number [maths watch clips 82, 131] • Use index laws for multiplication, division and raising a power to a power [maths watch clips 82, 131] <p><u>Solving linear equations</u></p> <ul style="list-style-type: none"> • Solve linear equations where the variable appears on only one side [maths watch clip 135a] • Solve equations where the variable appears in the numerator of a fraction [maths watch clip 135a] • Solve equations which involve brackets [maths watch clip 135a] <p>Solve equations where the variable appears on both sides [maths watch clip 135a]</p> <p><u>Inequalities</u></p> <ul style="list-style-type: none"> • Show inequalities on a number line, using solid circles to show inclusive values and open circles to show exclusive values [maths watch clip 138] • Write down an inequality shown on a number line [maths watch clip 138] • Solve a simple linear inequality and represent it on a number line [maths watch clips 138, 139] 	<ul style="list-style-type: none"> • Understanding the difference between a linear and a quadratic function • A quadratic function can have 0, 1 or 2 solutions and how using a graph can only give an approximate solution to the function. • Identifying the properties of a quadratic function