

Week	Topic/Objectives	Strategies	Activities	Resources	Websites
Term 1 Week 5	<b>2.3 – 2.4 Completing the Square Method and Quadratic Formula</b> <ul style="list-style-type: none"> <li>• solve quadratic equations of the form <math>x^2 + bx + c = 0</math> by the completing the square method</li> <li>• solve quadratic equations by using the quadratic formula</li> </ul>	<p>Exploring the idea of completing the square</p> <p>Illustrating the method of solving a quadratic equation by completing the square</p> <p>Deriving the quadratic formula and illustrating how to apply it to solve a quadratic equation</p>	p.37 Class Activity 1	<p>p.36-39 Textbook</p> <p>p.40-42 Textbook</p> <p>E-Book</p> <p>Teacher's Guide</p> <p><a href="http://www.univie.ac.at/future.media/moe/galerie/gleich/">http://www.univie.ac.at/future.media/moe/galerie/gleich/</a></p> <p>Applet: Quadratic equations 1</p>	<p><a href="http://lgfl.skool.co.uk/keystage4.aspx?id=317">http://lgfl.skool.co.uk/keystage4.aspx?id=317</a></p> <p><a href="http://www.bbc.co.uk/schools/gcsebitesize/maths/activities/flash/snap_factorising/snap_factorising.shtml">http://www.bbc.co.uk/schools/gcsebitesize/maths/activities/flash/snap_factorising/snap_factorising.shtml</a></p>
Term 1 Week 6	<b>2.5 – 2.6 Fractional Equations and Problems Involving Quadratic Equations</b> <ul style="list-style-type: none"> <li>• solve fractional equations that can be transformed to quadratic equations</li> <li>• apply quadratic equations to solve everyday problems</li> </ul>	<p>Extending the method of solving quadratic equations to solve fractional equations that can be transformed to quadratic equations</p> <p>Demonstrating problem solving involving application of quadratic equations</p>		<p>p.43-45 Textbook</p> <p>p.45-50 Textbook</p> <p>E-Book</p> <p>Teacher's Guide</p>	<p><a href="http://lgfl.skool.co.uk/viewdetails_ks4.aspx?id=390">http://lgfl.skool.co.uk/viewdetails_ks4.aspx?id=390</a></p>
Term 1 Week 7	<b>Chapter 3 Linear Inequalities</b> <b>3.1 – 3.2 Basic Properties of Inequalities and Linear Inequalities in One Unknown</b> <ul style="list-style-type: none"> <li>• understand the basic properties of inequalities</li> <li>• solve linear inequalities in one unknown</li> <li>• represent the solution of a linear inequality on the number line</li> </ul>	<p>Exploring the properties of inequalities</p> <p>Applying the properties to solve linear inequalities in one unknown</p> <p>Illustrating the representation of the solution of an inequality on a number line</p>	p.58 Class Activity 1	<p>p.57-60 Textbook</p> <p>p.60-63 Textbook</p> <p>E-Book</p> <p>Teacher's Guide</p>	<p><a href="http://www.bbc.co.uk/schools/gcsebitesize/maths/activities/intalg-inequalities.shtml">http://www.bbc.co.uk/schools/gcsebitesize/maths/activities/intalg-inequalities.shtml</a></p> <p><a href="http://www.bbc.co.uk/schools/gcsebitesize/maths/algebra/inequalitiesrev1.shtml">http://www.bbc.co.uk/schools/gcsebitesize/maths/algebra/inequalitiesrev1.shtml</a></p>