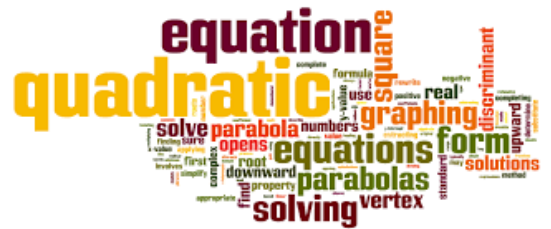


Year 11 Unit 3 Overview

Target grade for tests:

You will learn about:

- Solve quadratics algebraically by factorising
- Finding approximate solutions to quadratic equations using a graph
- Sampling data and its limitations
- Vectors



<p>Lesson Overview</p> <p><u>QUADRATIC EQUATIONS</u></p> <ul style="list-style-type: none"> • Solve a quadratic equation of the form $x^2 + bx + c$ by factorising • Solve a quadratic equation of the form $ax^2 + bx + c$ by factorising • Make connections between graphs and quadratic equations of the form $ax^2 + bx + c = 0$ • Make connections between graphs and quadratic equations of the form $ax^2 + bx + c = dx + e$ • Find approximate solutions to quadratic equations using a graph • Deduce roots of quadratic functions algebraically • Solve problems that involve solving a quadratic equation in context <p><u>DATA - SAMPLING</u></p> <ul style="list-style-type: none"> • Understand the limitations of sampling • Use a sample to infer properties of a population <p><u>VECTORS</u></p> <ul style="list-style-type: none"> • Understand the concept of a vector • Use diagrammatic representation of vectors • Know and use different notations for vectors • Add (subtract) vectors • Multiply a vector by a scalar • Solve simple geometrical problems involving vectors 		<p>Key Words</p> <p>Refer to http://studymaths.co.uk/glossary.php for definitions of the key words</p> <p>(Quadratic) equation Factorise Variable Unknown Manipulate Solve Deduce x-intercept Root</p> <p>Continuous data, Grouped data Axis, axes Population Sample Central tendency Mean, median, mode Spread, dispersion, consistency</p> <p>Notation Correct use of inequality symbols when labeling groups in a frequency table</p> <p>Vector Scalar Constant Magnitude</p> <p>Notation α (print) and \underline{a} (written) notation for vectors \overline{AB} notation for vectors Column vector notation $\begin{pmatrix} p \\ q \end{pmatrix}$, p = movement right and q = movement up</p>	
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Research	Note-making	Group work & discussion	Memorisation	Precision & accuracy	Independence	Reflection