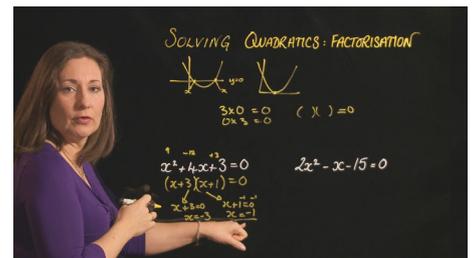
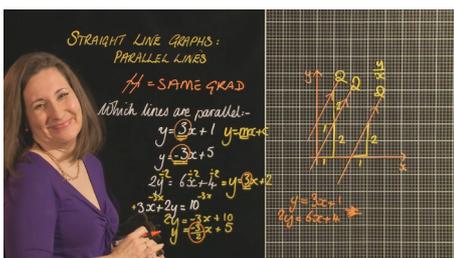




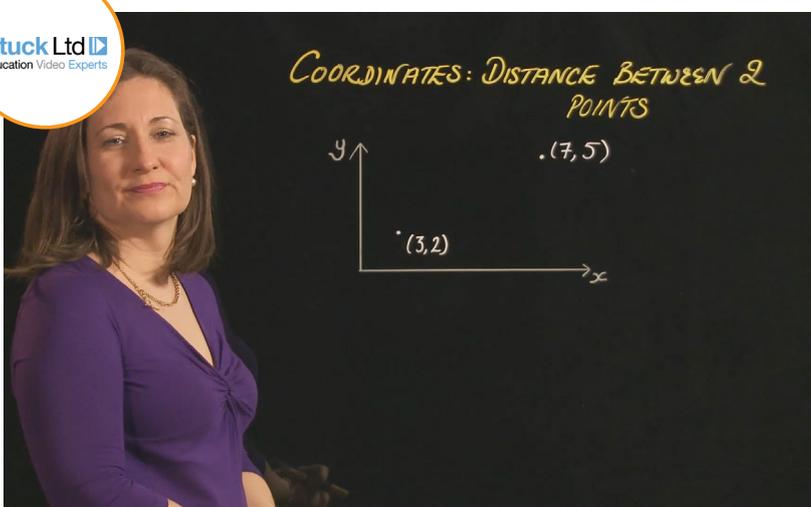
Mathematics

Stills from our new series



Coordinates

An experienced mathematics teacher guides students through the use of a number of very important skills in coordinate geometry.

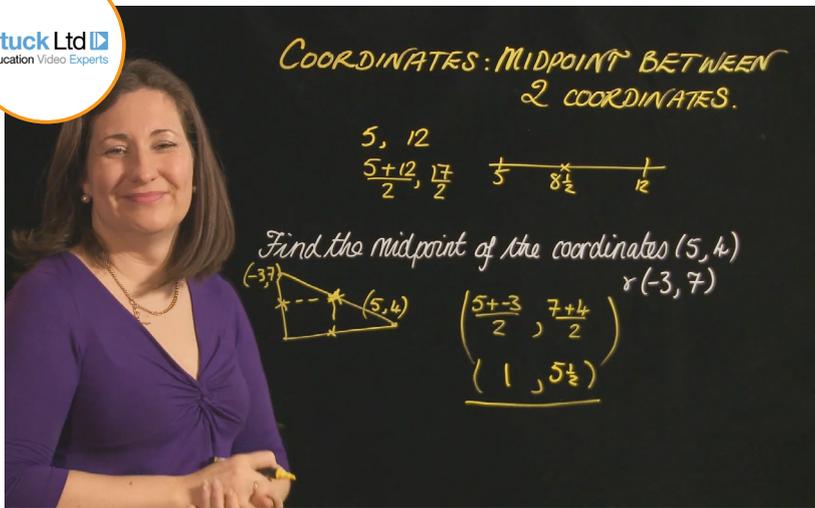


Distance between Two Points

This video shows students how to find the distance between two points or coordinates by creating a triangle and applying Pythagoras' theorem.

Mid Secondary - Snr Secondary

2013 | 8 min | CC

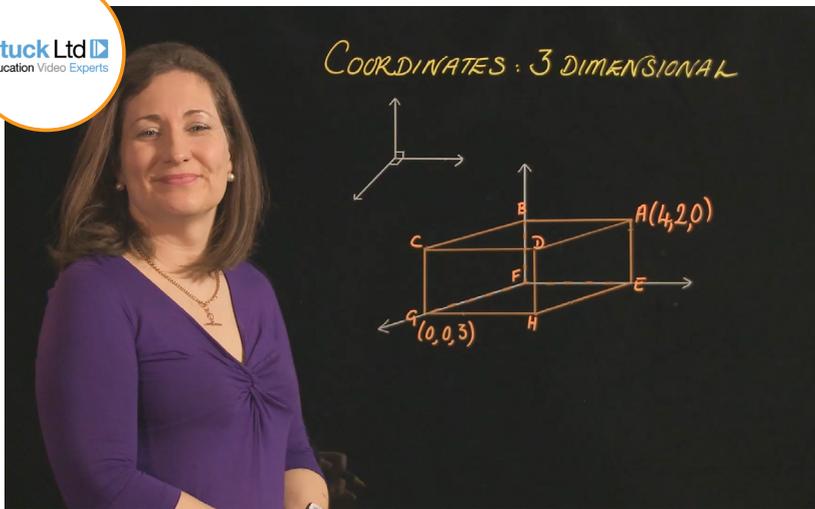


2013 | 4 min | CC

Midpoint between Two Coordinates

This video shows students how to find the midpoint between two coordinates for intervals, 2D and 3D shapes.

Mid Secondary - Snr Secondary



2013 | 6 min | CC

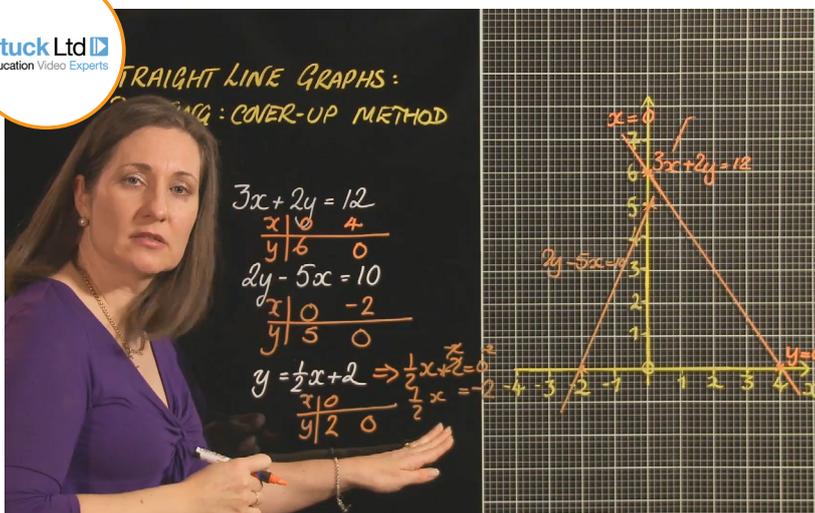
Three Dimensional

In this video, students learn about how to find three dimensional coordinates which involve coordinates in three planes.

Mid Secondary - Snr Secondary

Graphs

These mathematics tutorials teach students how to draw and use graphs, with the help of an experienced teacher.

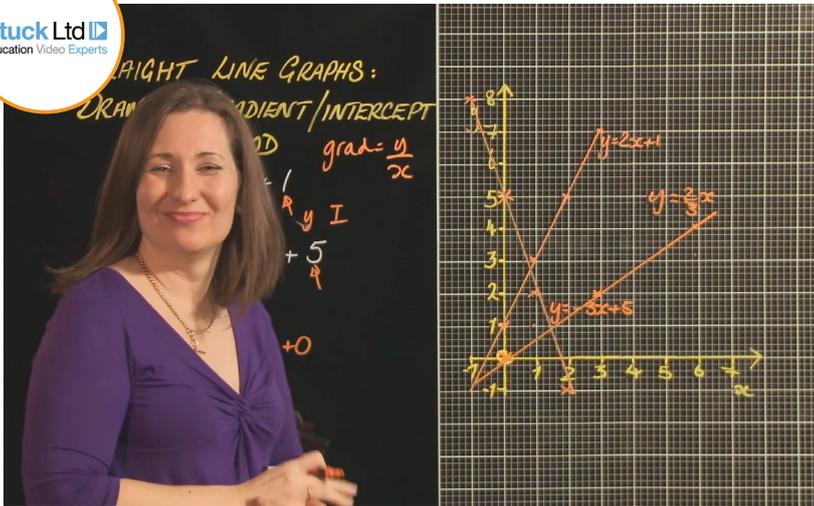


2013 | 5 min | CC

Drawing: Cover-Up Method

In this video, one method for drawing straight line graphs is shown. By forcing x or y to be 0, that value is "covered up" and the equation can be solved, and both the x-intercepts and y-intercepts can be found.

Mid Secondary - Snr Secondary

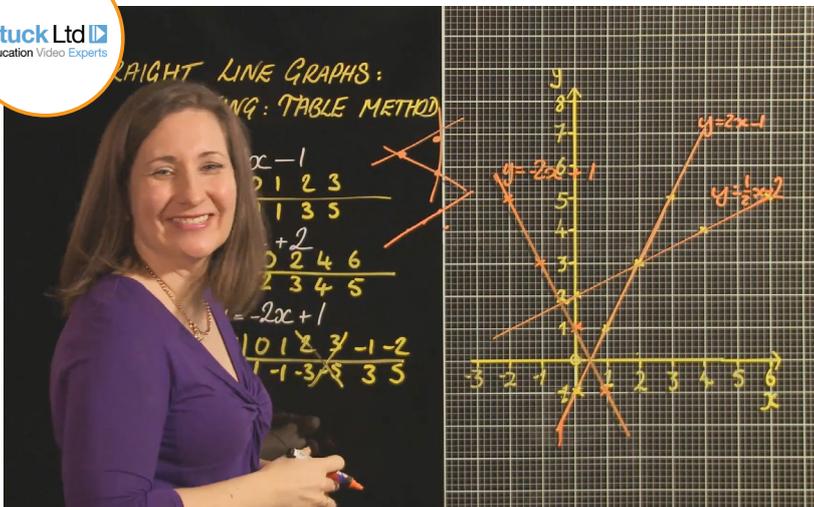


Drawing: Gradient-Intercept Method

In this video, students learn how to plot a straight line graph by identifying the gradient, and using it with the y-intercept.

Mid Secondary - Snr Secondary

2013 | 4 min | CC

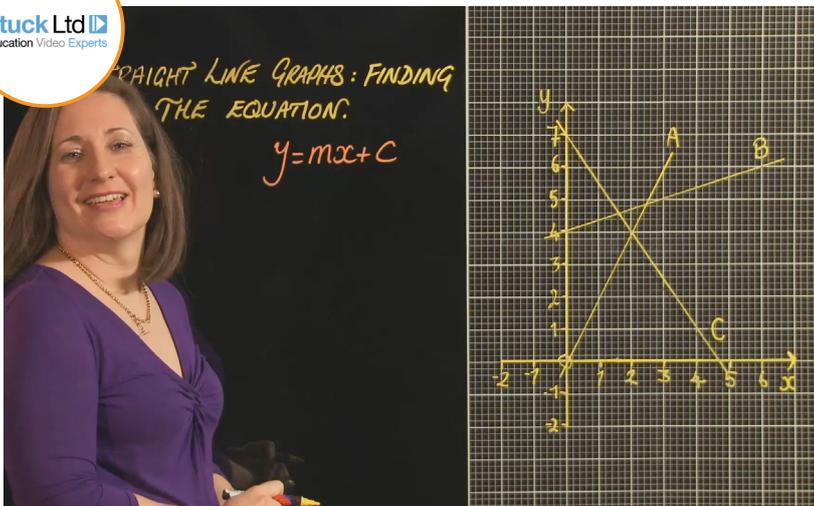


Drawing: Table Method

In this programme, the teacher demonstrates how the table method is used in order to teach students how to plot straight lines onto a graph.

Mid Secondary - Snr Secondary

2013 | 11 min | CC

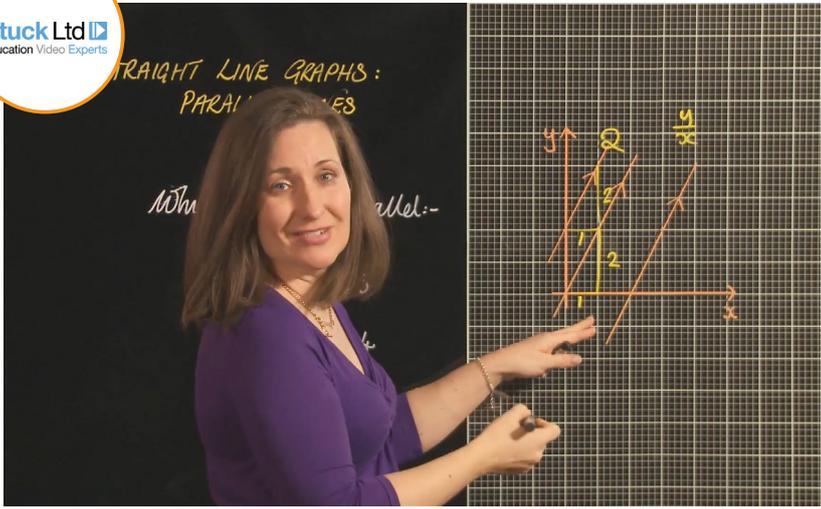


Finding the Equation

This video shows students how to find the equation of a straight line by using the formula $y=mx+c$.

Mid Secondary - Snr Secondary

2013 | 5 min | CC

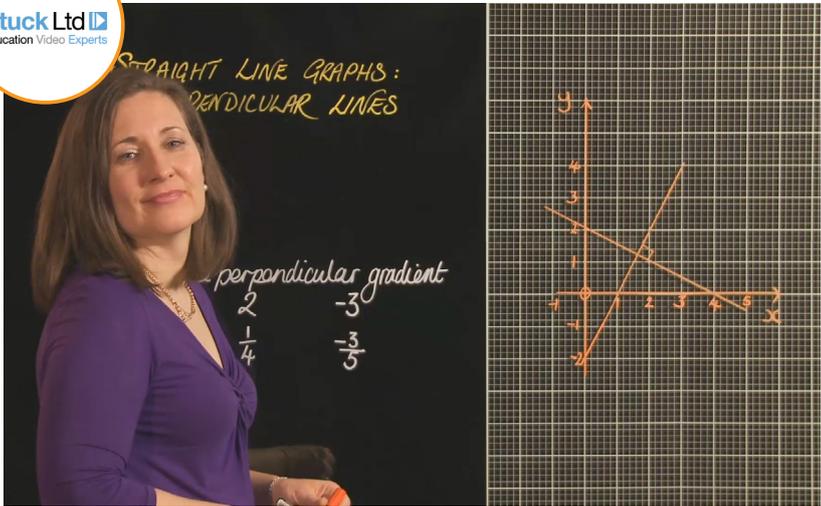


2013 | 11 min | CC

Parallel Lines

This video shows students how parallel lines on a graph have the same gradient, and how to identify which lines are parallel to each other using their equations.

Mid Secondary - Snr Secondary



2013 | 6 min | CC

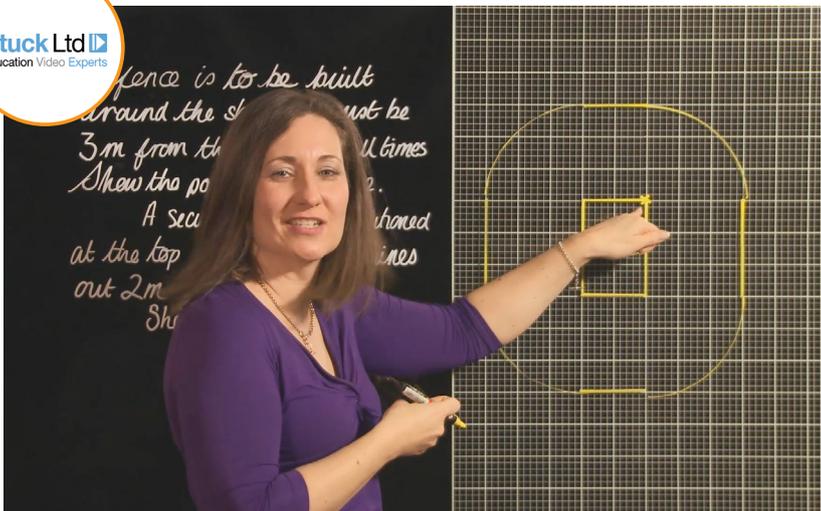
Perpendicular Lines

This programme shows students how to identify which lines are perpendicular by using their gradients.

Mid Secondary - Snr Secondary

Loci

This series teaches students how to identify the loci of points and lines, and how they can be used to answer practical questions.

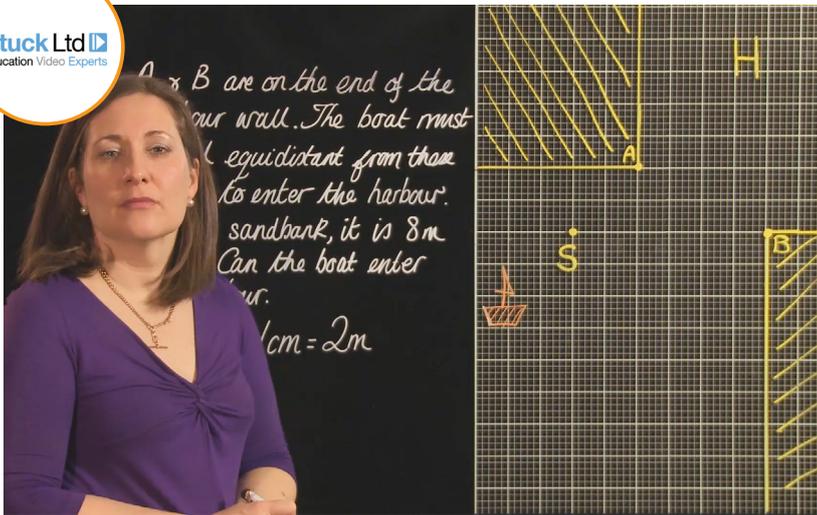


2013 | 5 min | CC

Loci of One or Two Lines

This programme shows students how to find the loci of one ongoing or terminating line or two lines; and how to apply this knowledge in practical questions.

Mid Secondary



Loci of One or Two Points

The loci or locus is a line following a given rule. In this video, the teacher demonstrates how to find the loci of either one and two points.

Mid Secondary

2013 | 3 min | CC

Perimeter and Area of a Circle

This teacher-driven series shows students how to find the area and perimeter of a portion of a circle.

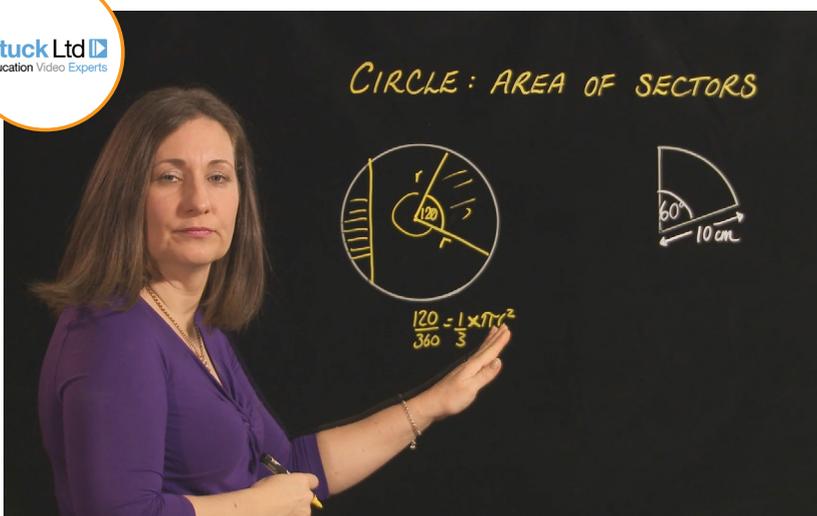


Arc Length

This programme shows students how to calculate the arc length of a circle by using the circumference, radius, and π .

Mid Secondary - Snr Secondary

2013 | 6 min | CC

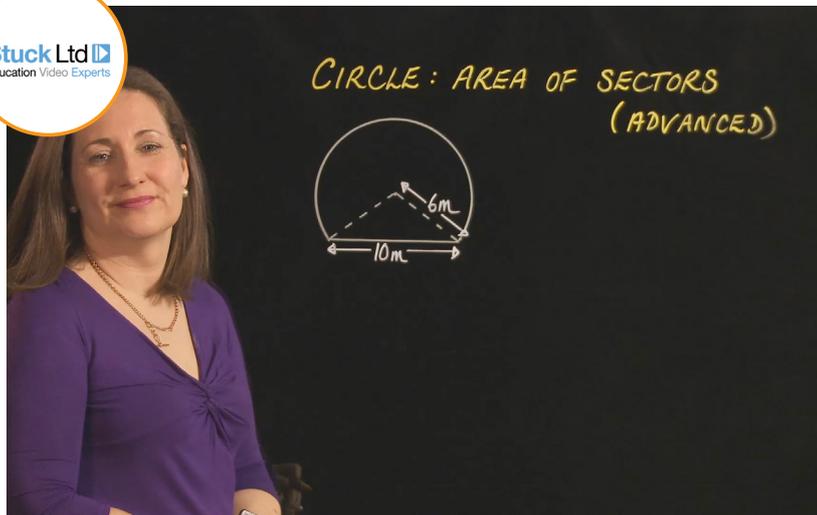


Area of Sectors

In this video, students learn how to calculate the area of a sector of a circle using the angle provided, radius, and π .

Mid Secondary - Snr Secondary

2013 | 4 min | CC

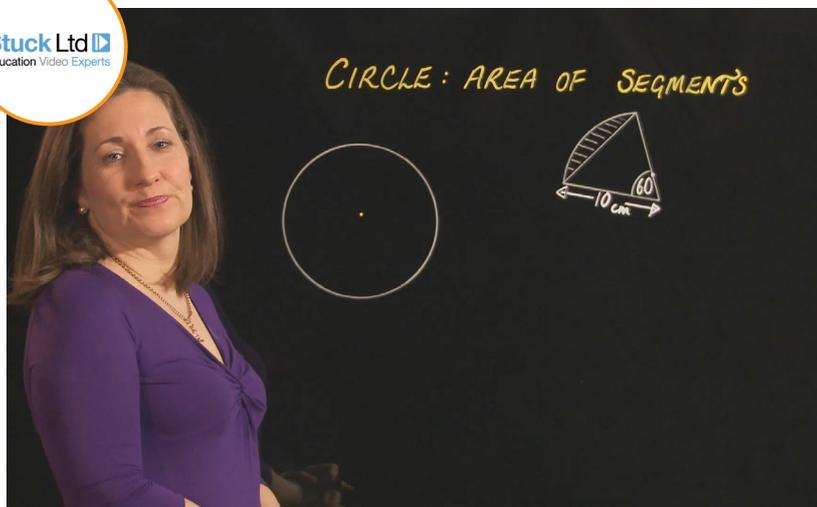


2013 | 7 min | CC

Area of Sectors (Advanced)

This video continues on from "Area of Sectors" providing a more advanced question where students are to find the area of a sector in a circle that is missing a segment.

Mid Secondary - Snr Secondary



2013 | 4 min | CC

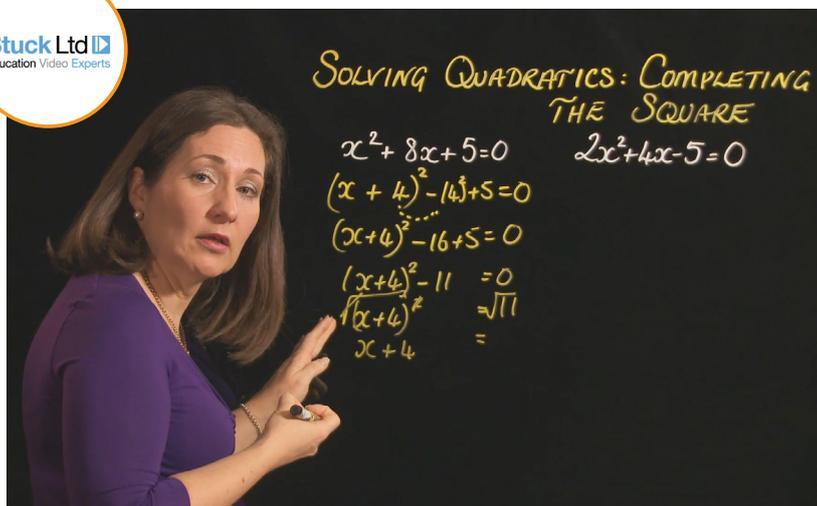
Area of Segments

A segment of a circle is found by drawing in a chord and then slicing off the smaller part of the circle. This video shows students how to find the area of a segment of a circle.

Mid Secondary - Snr Secondary

Solving Quadratic Equations

These mathematics tutorials, presented by an experienced mathematics teacher, teaches students the various methods that can be used to solve quadratic equations.

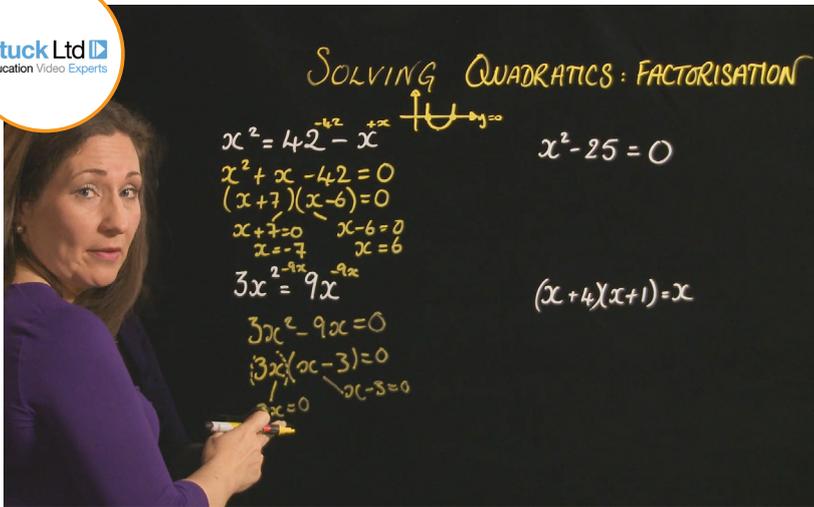


2013 | 5 min | CC

Completing the Square

The teacher demonstrates to students how to use the method known as "completing the square" to solve quadratic equations.

Mid Secondary

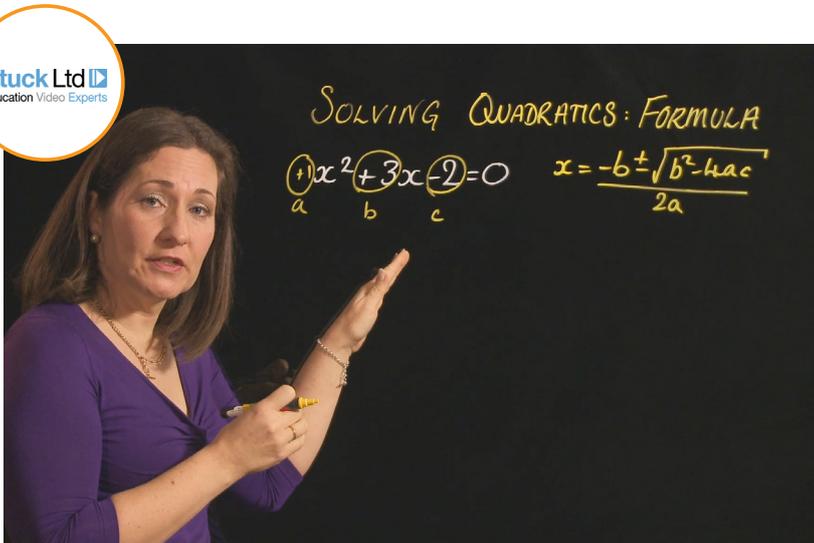


2013 | 8 min | CC

Factorisation

This video shows one of the methods used to solve a quadratic equation. Factorisation is one of the quickest and most popular methods used, and students are shown how to use it.

Mid Secondary

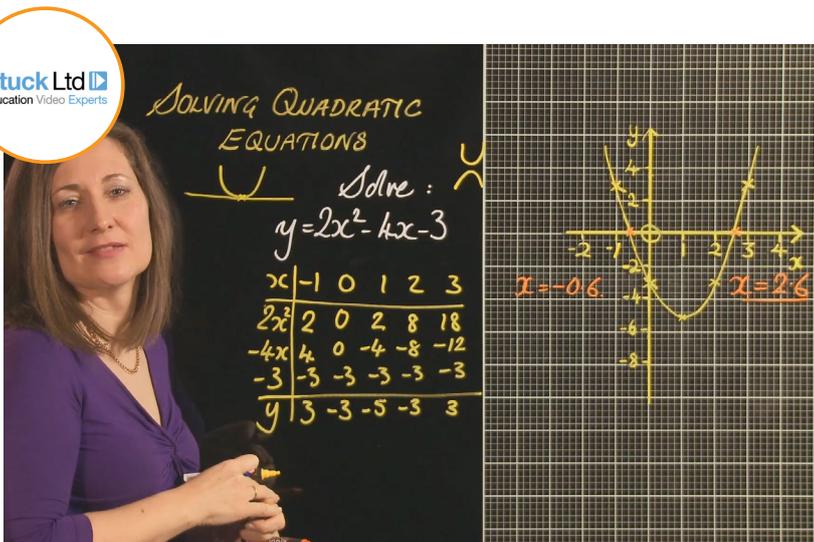


2013 | 4 min | CC

Quadratic Formula

This programme introduces students to the concept of cyclic quadrilaterals, which are quadrilateral whose vertices all lie on a single circle. In this video, the focus is specifically on how the opposite angles in a cyclic quadrilateral add up to 180 degrees.

Mid Secondary



2013 | 5 min | CC

Solving Quadratic Equations Graphically

This video shows students how to solve quadratic equations graphically as opposed to algebraically.

Mid Secondary