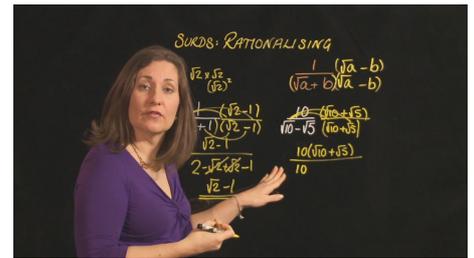
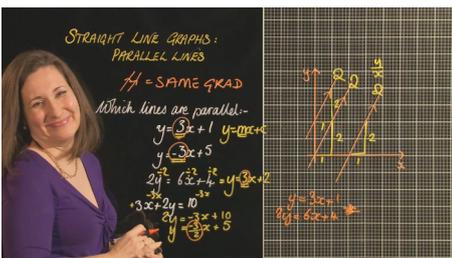




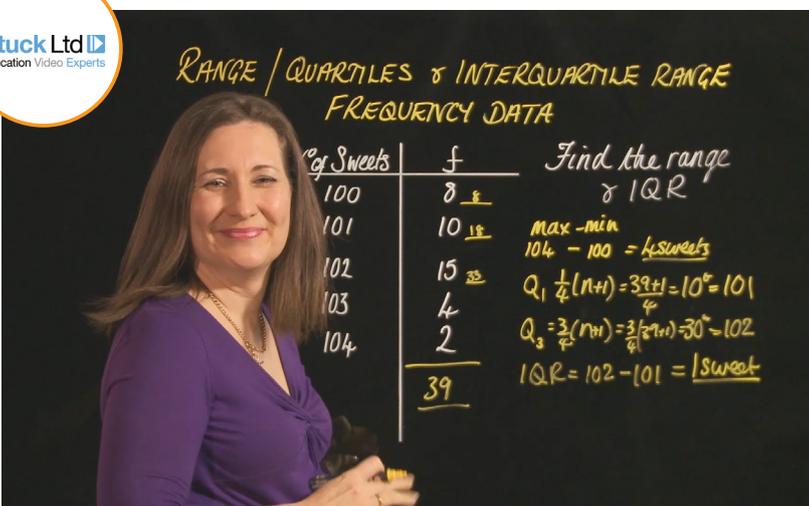
Mathematics

Stills from our new series



Data Handling

This series introduces students to the important concepts when examining large amounts of data. An experienced teacher introduces several definitions, quartiles, interquartile range, and sampling.

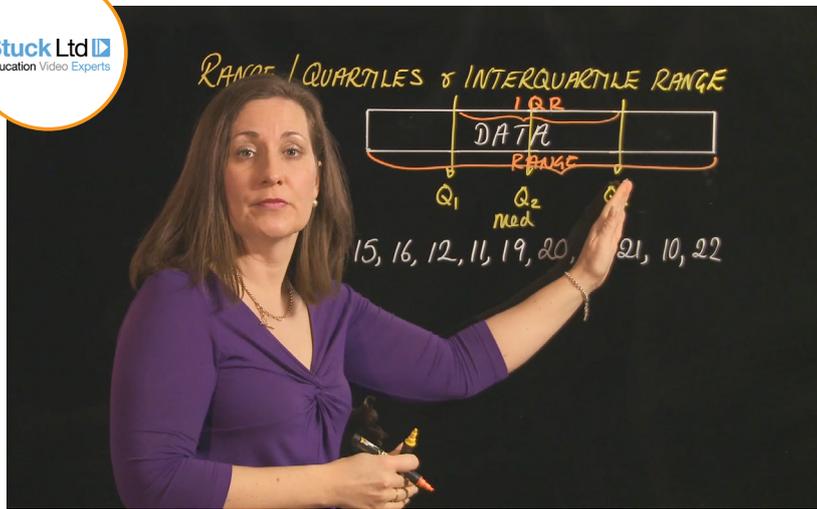


Quartiles and Interquartile Range: Frequency Data

This programme furthers students knowledge of range and interquartile range by showing them how to apply it to frequency data, and how to find the interquartile range using a graph plotted from a frequency table.

Mid Secondary – Snr Secondary

2013 | 8 min | CC



2013 | 6 min | CC

Quartiles and Interquartile Range: Raw Data

This video introduces students to the concept of quartiles, what an interquartile range is, and how to find the median using it.

Mid Secondary – Snr Secondary



2013 | 4 min | CC

Simple Random Sampling

This video shows students the different methods of simple random sampling which include pulling the names out of the hat, using the Ran# button on a calculator, and a random number table.

Mid Secondary – Snr Secondary



2013 | 4 min | CC

Stratified Sampling

This video explains to students what stratified sampling is, and demonstrates how to take a stratified sample of a population.

Mid Secondary – Snr Secondary

Geometry

Ideal for student revision, this series presented by an experience mathematics teacher, introduces students to common geometric concepts.



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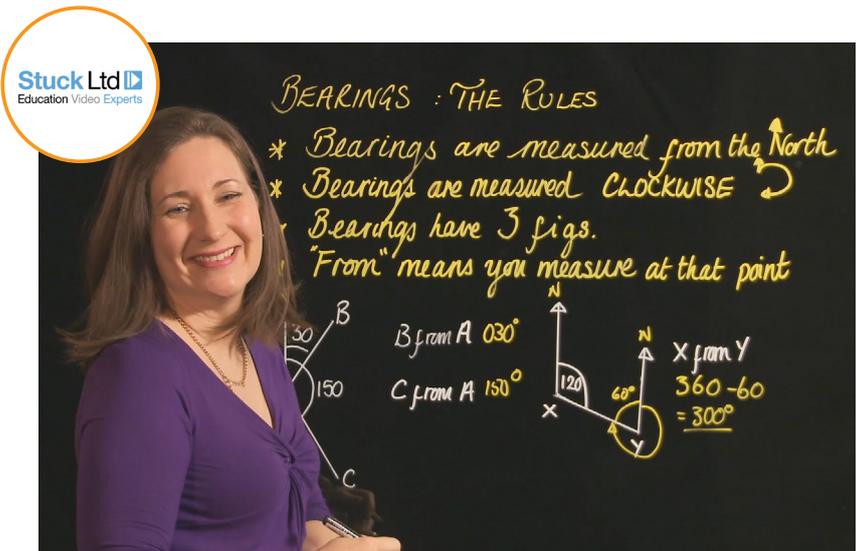
BEARINGS : SCALE DIAGRAMS
A man walks due North for 500m before turning on a bearing of 080° . He then walks $1\frac{1}{2}$ km before returning home in a straight line. Plot accurately the man's journey using a 1:10,000 scale.

2013 | 6 min | CC

Bearings: Scale Diagrams

Following on from 'Bearings: The Rules', this video applies the knowledge students have learnt about bearings to scale diagrams using practical questions.

Mid Secondary – Snr Secondary



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BEARINGS : THE RULES
* Bearings are measured from the North
* Bearings are measured CLOCKWISE
* Bearings have 3 figs.
"From" means you measure at that point

B from A 030°
C from A 150°

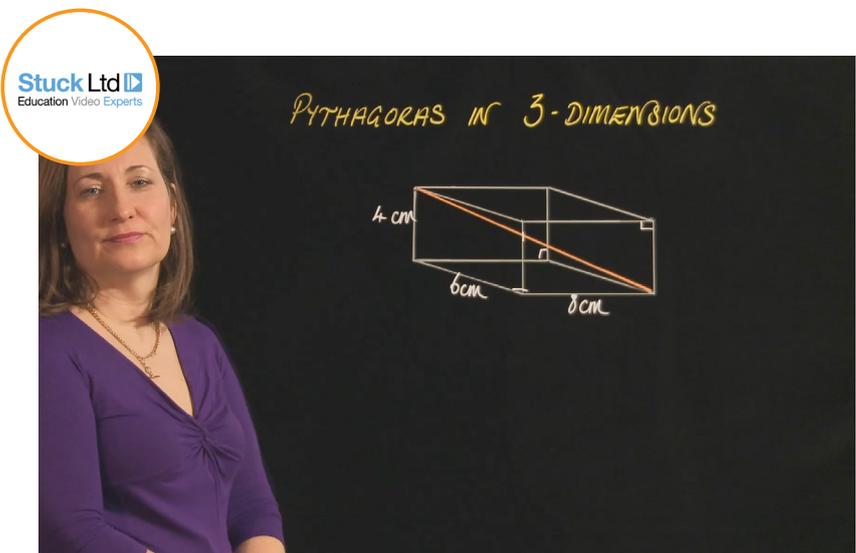
X from Y
 $360 - 60 = 300^\circ$

2013 | 6 min | CC

Bearings: The Rules

This programme introduces students to bearings and the rules involved in their use. The topic is explained using an obtuse angle, angles on parallel lines, and a triangle.

Mid Secondary – Snr Secondary



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PYTHAGORAS IN 3-DIMENSIONS

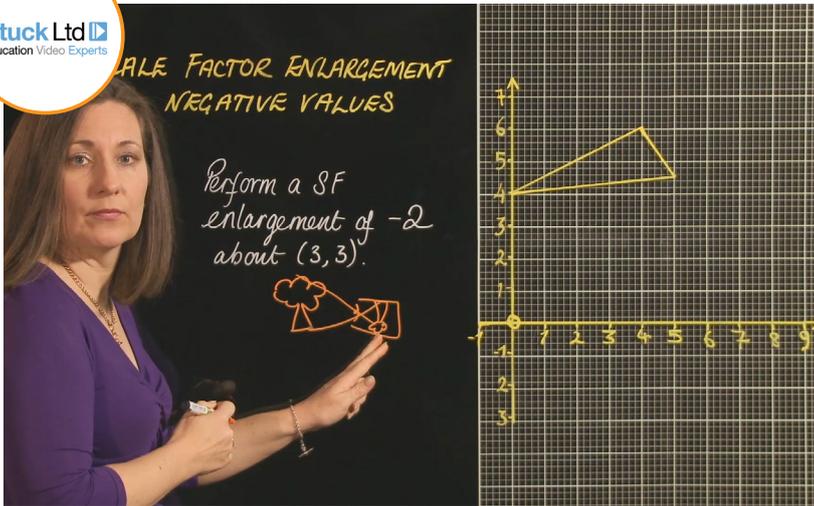
4 cm, 6 cm, 8 cm

2013 | 4 min | CC

Pythagoras' Theorem in 3 Dimensions

This programme shows students how to apply Pythagoras' theorem to find the length of internal diagonals in three dimensional shapes.

Mid Secondary – Snr Secondary

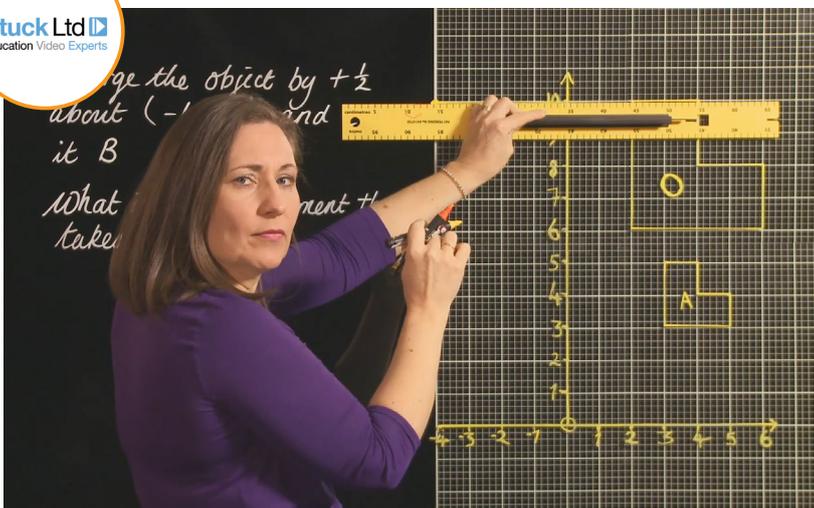


Scale Factor Enlargement: Negative Values

This programme shows students how to enlarge or reduce the scale factor of a shape by a negative value and plot it on a graph.

Mid Secondary – Snr Secondary

2013 | 8 min | CC



Scale Factor Enlargement: Positive Values

This programme shows students how to enlarge or reduce shapes in size and plot these shapes on graphs using coordinates.

Mid Secondary – Snr Secondary

2013 | 11 min | CC

Numbers

These math tutorials presented by an experienced mathematics teacher, can be used to introduce or reinforce key mathematical topics, including standard notation and irrational numbers.

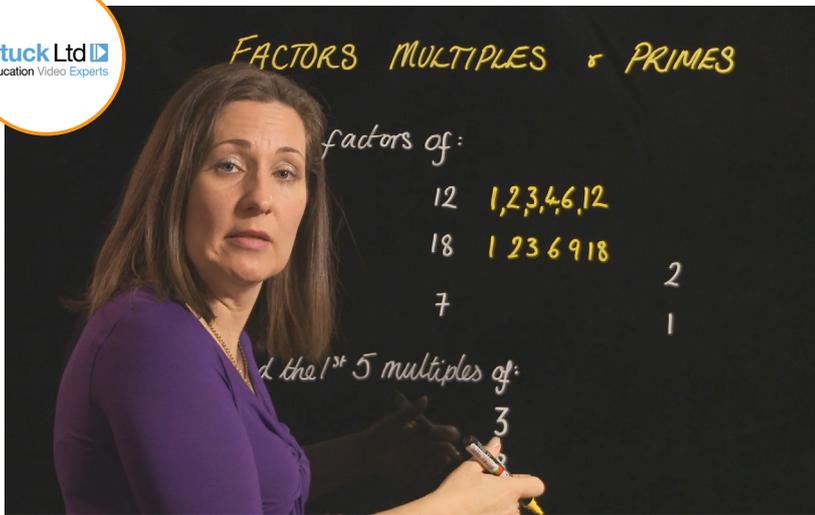


Compound Measure: Distance, Speed, and Time

A compound measure is a measurement that includes more than one measurement. This video looks at distance, speed, and time and how speed equals distance over time.

Mid Secondary – Snr Secondary

2013 | 5 min | CC

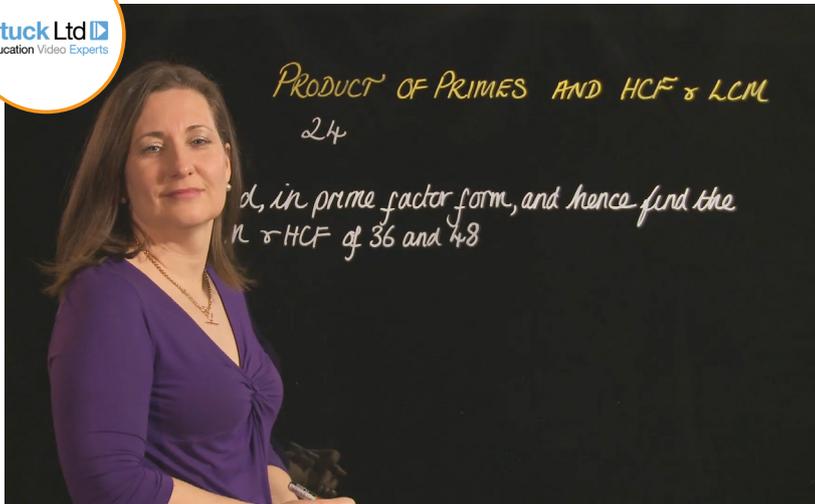


2013 | 7 min | CC

Factors, Multiples, and Primes

In this video the teacher demonstrates how to find the factors and multiples of numbers. The concept of prime numbers is also explained.

Mid Secondary – Snr Secondary

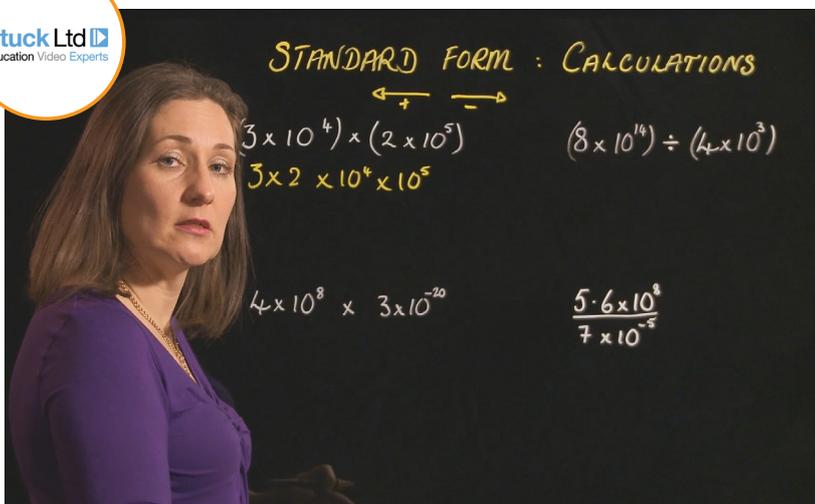


2013 | 6 min | CC

Product of Primes, HCF, and LCM

This programme shows students how to find the product of prime numbers, as well as the HCF and LCM by using prime factors.

Mid Secondary – Snr Secondary

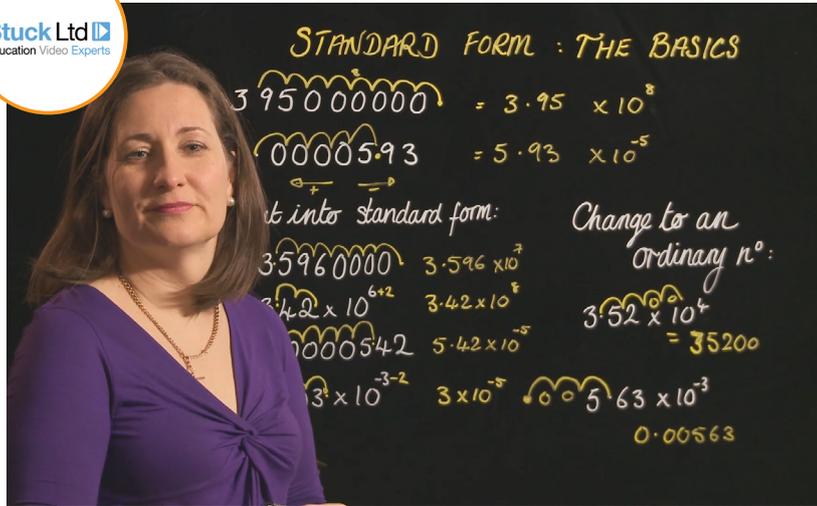


2013 | 3 min | CC

Standard Index Form: Calculations

Continuing on from 'Standard Form: The Basics', this video uses standard form in calculations involving multiplication and division.

Mid Secondary – Snr Secondary



2013 | 5 min | CC

Standard Index Form: The Basics

Through this video, students come to understand standard form and its use of positive and negative indices.

Mid Secondary – Snr Secondary

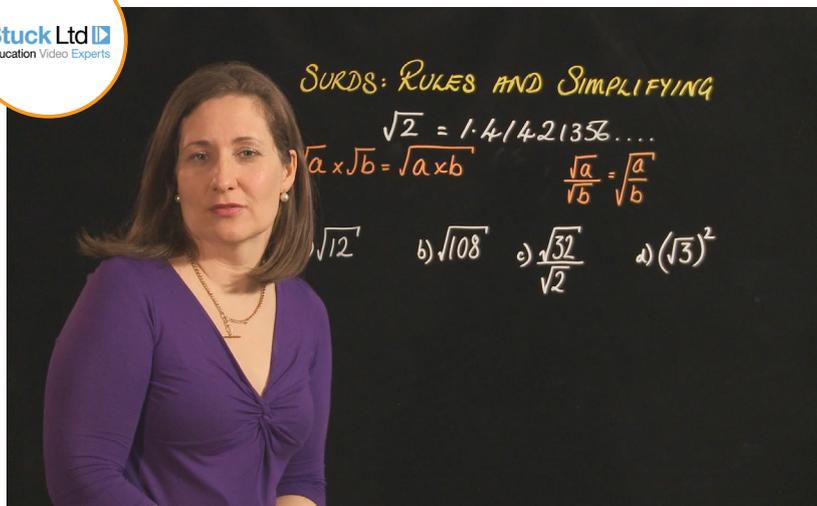


2013 | 6 min | CC

Surds: Rationalising

Rationalising surds means to remove the root from the denominator of a fraction. This video shows students how to rationalise surds through a variety of questions.

Mid Secondary – Snr Secondary



2013 | 6 min | CC

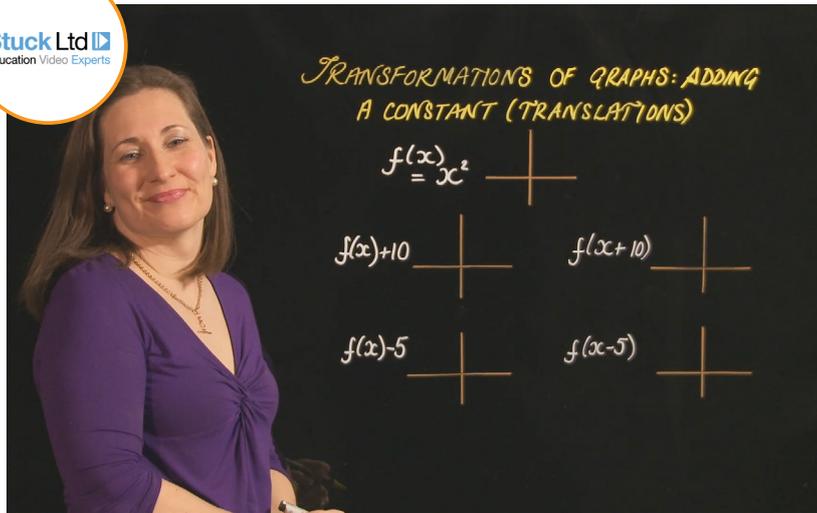
Surds: Rules and Simplifying

In this programme, students are able to learn about how to simplify surds when multiplying, dividing, adding or subtracting them and the rules that accompany them.

Mid Secondary – Snr Secondary

Transformation of Graphs

These easy to follow mathematics tutorials illustrate to students how any graph can be transformed through the use of a constant.

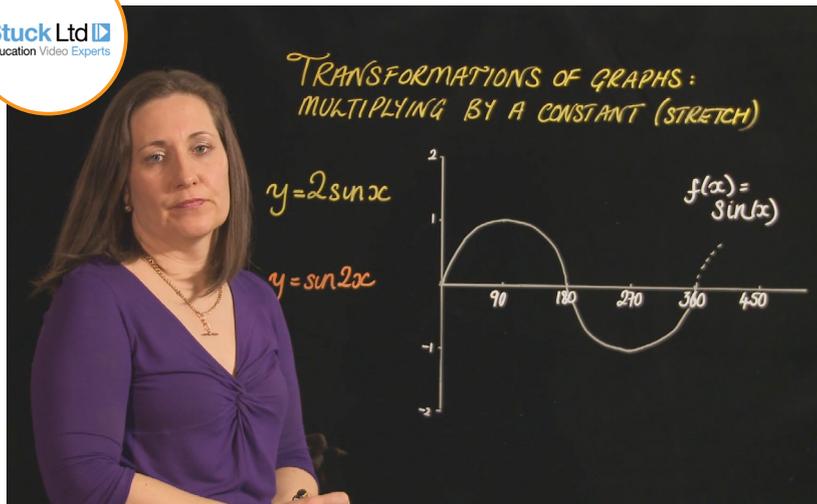


2013 | 6 min | CC

Adding a Constant

This video shows students what adding a constant does to a graph. It shows the result of adding a positive or negative constant inside or outside the brackets of a parabola or cubic graph.

Mid Secondary – Snr Secondary

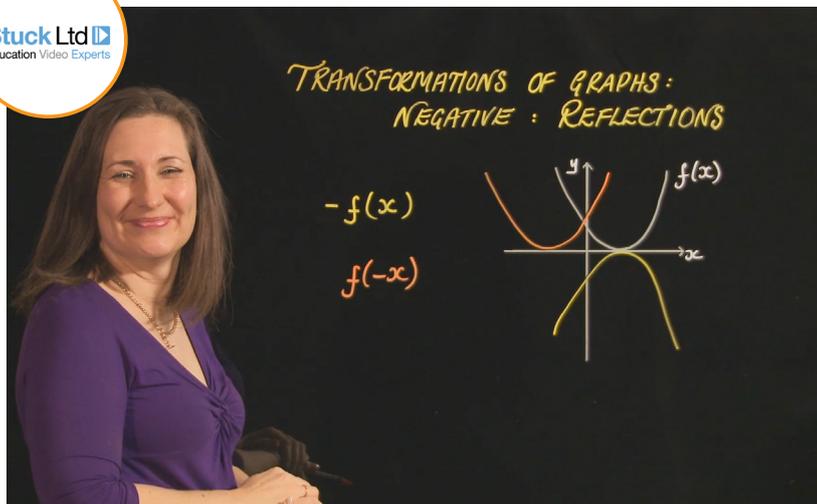


2013 | 7 min | CC

Multiplying by a Constant

This video shows students what multiplying an equation with a constant does to a graph, whether it is inside or outside the function brackets.

Mid Secondary – Snr Secondary



2013 | 3 min | CC

Negative: Reflections

This programme informs students of how a negative number can transform a graph depending on whether it is $-f(x)$ or $f(-x)$.

Mid Secondary – Snr Secondary