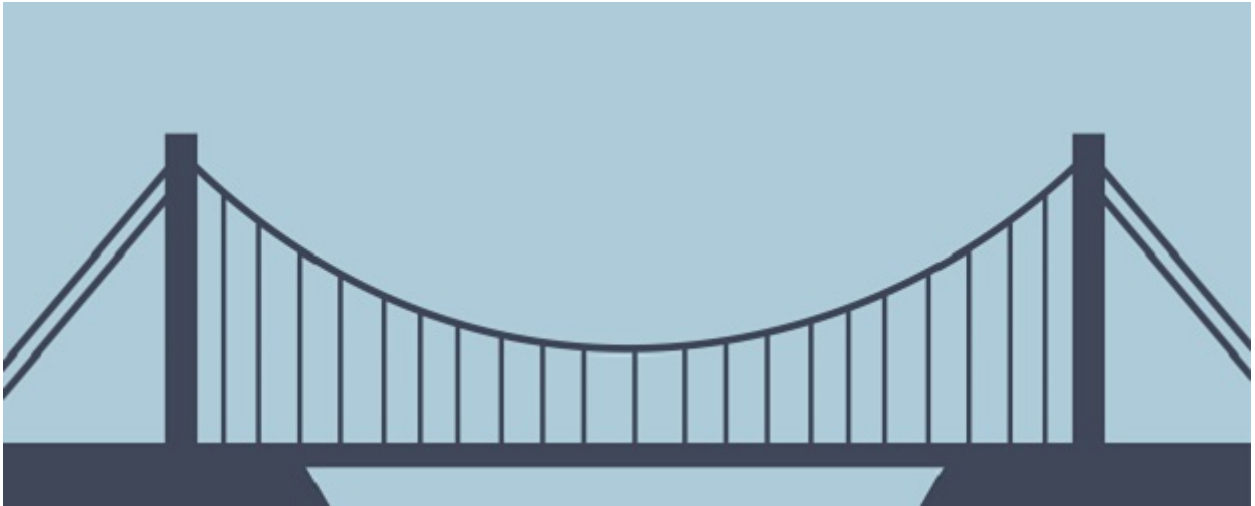


The Bridge to A level Therapy



Therapy for Topics

All therapy references are referenced to the *PiXL Maths App* or *MyMaths*

For the *PiXL Maths App* you need to navigate to the *Therapy* videos as follows:

After logging in, select the *Design a Test* tab.

This will give you 7 tabs to choose from (Number, Algebra, Ratio & Proportion, Geometry, Probability, Statistics and Problem Solving). Select one of these; this is the *Topic*.

You will now see a menu of *Test Titles*. Select the one you need, and you will need to select the *Begin Test* button.

You need not do this test, but it will bring up the *Therapy Video* button which you now select.

This will give you the menu of Therapy video titles applicable to this test, Select the one you need.

In Summary, all therapy references are for therapy videos from the PiXL Maths App.

The relevant video is found by accessing

Design a Test / Topic / Test Title / Therapy video title

The PiXL Maths App can be downloaded free from the PiXL website

<http://mathsapp.pixl.org.uk/>

For *MyMaths* your school needs to supply you with your login details.

The hyperlinks in this document will take you directly to the pages you will need. **(You may need to copy and paste the link into your web browser).**

Therapy for Topic 1 Quadratic equations

PiXL Therapy - [Rearranging and solving quadratics](#), [Completing the square](#), [Factorising](#), [Formula](#)

Maths App Reference

1. Algebra / Graph transformations part a / Calculate the minimum point of a quadratic function
2. Algebra / Quadratics / Solve a quadratic by factorising where a is not 1 **and** solve a quadratic by completing the square

MyMaths Reference

<https://app.mymaths.co.uk/1784-resource/quadratic-equations-1>
<https://app.mymaths.co.uk/192-resource/quadratic-equations-2>
<https://app.mymaths.co.uk/193-resource/completing-the-square>
<https://app.mymaths.co.uk/194-resource/quadratic-formula>

Therapy for Topic 2 Algebra

Maths App Reference

1. Algebra / Harder equations and re-arranging formulae / Re-arrange a formula where the subject appears more than once

MyMaths Reference

<https://app.mymaths.co.uk/175-resource/factorising-quadratics-2>
<https://app.mymaths.co.uk/207-resource/rearranging-2>
<https://app.mymaths.co.uk/176-resource/cancelling-algebraic-fractions>
<https://app.mymaths.co.uk/177-resource/adding-algebraic-fractions>
<https://app.mymaths.co.uk/178-resource/multiplying-algebraic-fractions>

Therapy for Topic 3 Simultaneous equations

PiXL Therapy - [Linear](#), [Non-linear](#)

Maths App Reference

1. Algebra / Simultaneous equations / Solve linear and non-linear simultaneous equations

MyMaths Reference

<https://app.mymaths.co.uk/198-resource/simultaneous-equations-3>
<https://app.mymaths.co.uk/195-resource/quadratic-simultaneous-equus>

Therapy for Topic 4 Surds

PiXL Therapy - [Surds](#)

Maths App Reference

1. Number / Surds / Simplify a surd
2. Number / Surds / Rationalise a denominator

3. Number / Surds / Operate with surds

MyMaths Reference

<https://app.mymaths.co.uk/599-resource/surds-part-1>

<https://app.mymaths.co.uk/600-resource/surds-part-2>

Therapy for Topic 5 Indices

PiXL Therapy - [Negative and fractional index laws](#)

Maths App Reference

1. Number / Indices / Evaluate positive, negative and fractional indices

MyMaths Reference

<https://app.mymaths.co.uk/597-resource/indices-part-2>

<https://app.mymaths.co.uk/598-resource/indices-part-3>

Therapy for Topic 6 Properties of lines

MyMaths Reference

<https://app.mymaths.co.uk/559-resource/equation-of-a-line>

<https://app.mymaths.co.uk/3270-resource/equation-of-a-line-3>

Therapy for Topic 7 Sketching curves

PiXL Therapy - [Turning points and completing the square](#)

MyMaths Reference

<https://app.mymaths.co.uk/226-resource/sketching-quadratic-graphs-2>

<https://app.mymaths.co.uk/3266-resource/sketching-cubic-graphs>

<https://app.mymaths.co.uk/588-resource/sketching-polynomials>

Therapy for Topic 8 Transformation of functions

PiXL Therapy - [Translate a function](#)

Maths App Reference

1. Algebra/ Graph transformations part a / Recognise the shape of quadratic graph transformations

2. Algebra / Graph transformations part a / Calculate the minimum point of a quadratic function

3. Algebra / Graph transformations part b / Recognise trigonometric graph transformations

4. Algebra / Graph transformations part b / Interpret values from a transformed trigonometric graph

MyMaths Reference

<https://app.mymaths.co.uk/585-resource/transforming-graphs>

<https://app.mymaths.co.uk/3265-resource/transforming-graphs-1>
<https://app.mymaths.co.uk/229-resource/transforming-graphs-2>

Therapy for Topic 9 Pythagoras' Theorem and Trigonometric ratios

Maths App Reference

1. Geometry / Trigonometry / Calculate an unknown angle or side using SOH CAH TOA
2. Geometry / Trigonometry / Apply Pythagoras' Theorem and SOH CAH TOA in 3D contexts
3. Geometry / Pythagoras' Theorem / Calculate the length of a line in 2D or 3D problems
and Calculate the length of a line using Pythagoras from coordinates

MyMaths Reference

<https://app.mymaths.co.uk/300-resource/pythagoras-theorem>
<https://app.mymaths.co.uk/301-resource/pythagoras-3d>
<https://app.mymaths.co.uk/321-resource/trig-missing-angles>
<https://app.mymaths.co.uk/322-resource/trig-missing-sides>
<https://app.mymaths.co.uk/328-resource/3d-trigonometry>

Therapy for Topic 10 Sine / Cosine Rule

PiXL Therapy - [Cosine rule](#), [Sine rule](#)

Maths App Reference

1. Geometry / Sine and Cosine Rules / Apply the sine and cosine rules to calculate a length or an angle
2. Geometry / Sine and Cosine Rules / Calculate the area of non-right angled triangles and of a segment.

MyMaths Reference

<https://app.mymaths.co.uk/325-resource/cosine-rule-sides>
<https://app.mymaths.co.uk/326-resource/cosine-rule-angles>
<https://app.mymaths.co.uk/324-resource/sine-rule>
<https://app.mymaths.co.uk/327-resource/trig-area-of-a-triangle>

Therapy for Topic 11 Inequalities

PiXL Therapy - [Quadratic inequalities](#)

Maths App Reference

1. Algebra / Inequalities / Solve inequalities

MyMaths Reference

<https://app.mymaths.co.uk/232-resource/inequations>
<https://app.mymaths.co.uk/235-resource/quadratic-inequalities>

Therapy for Topic 12 Algebraic Proof

PiXL Therapy - [Proof](#)

MyMaths Reference

<https://app.mymaths.co.uk/1781-resource/identities>

<https://app.mymaths.co.uk/1777-resource/proof>

Therapy for Topic 13 Vectors

PiXL Therapy - [Vectors](#)

Maths App Reference

1. Geometry / Vectors / Construct a resultant vector from a diagram
2. Geometry / Vectors / Recognise when 3 or more points are collinear
3. Geometry / Vectors / Perform vector arithmetic

MyMaths Reference

<https://app.mymaths.co.uk/332-resource/vectors-1>

<https://app.mymaths.co.uk/333-resource/vectors-2>

Therapy for Topic 14 Probability

PiXL Therapy - [Conditional probability](#)

Maths App Reference

1. Probability / Dependent events / Calculate probabilities from tree diagrams using AND / OR statements
2. Probability / Venn diagrams – part b / Calculate probability from Venn diagrams and set notation

MyMaths Reference

<https://app.mymaths.co.uk/1730-resource/venn-diagrams-2>

<https://app.mymaths.co.uk/381-resource/probability-revision>

<https://app.mymaths.co.uk/382-resource/the-or-rule>

<https://app.mymaths.co.uk/383-resource/independent-probability>

Therapy for Topic 15 Statistics: Averages and Graphs

PiXL Therapy - [Histograms](#)

Maths App Reference

1. Statistics / Histogram tables / Calculating the frequency density
2. Statistics / Interpreting histograms / Calculating the frequency from a histogram

3. Statistics / Averages from a frequency table / Calculate the mean from a grouped frequency table
4. Statistics / Frequency polygon graphs / Interpret values from a frequency polygon graph
5. Statistics / Cumulative frequency graphs / Interpret a cumulative frequency diagram
6. Statistics / Boxplots / Interpret a boxplot

MyMaths Reference

<https://app.mymaths.co.uk/365-resource/histograms>

<https://app.mymaths.co.uk/1739-resource/frequency-polygons>

<https://app.mymaths.co.uk/362-resource/cumulative-frequency-1>

<https://app.mymaths.co.uk/363-resource/cumulative-frequency-2>

<https://app.mymaths.co.uk/364-resource/box-and-whisker-plots>