## Mathematics - Year ll - Higher

| Topic | Resources |
| :--- | :--- |
| Cubic graphs <br> Reciprocal graphs <br> Exponential graphs <br> Trigonometric graphs <br> Real life graphs <br> Gradients <br> Areas under graphs <br> Equation of a circle | $\underline{\text { https://www.piximaths.co.uk/transformations-of-graphs }}$ |
| https:/www.piximaths.co.uk/transformations-of-graphs |  |

## Four operations

Powers and roots
Factors and multiples
Prime factor decomposition
HCF \& LCM
Rounding
Reciprocals
Standard form
Indices
Surds
Simplifying Expressions
Substitution
Expanding - brackets
Factorising - brackets
Solving linear equations
Sequences
Inequalities
Simple proof
Two way tables
Stem and leaf diagrams
Bar charts
Pie charts
Scatter graphs
Averages and range
Fractions
Percentages
Proportion
Ratio
Angles and lines
Parallel lines
Triangles \& quadrilaterals
Congruence \& similarity
Polygons - angles in
Pythagoras
Trigonometry
Equation of a straight line
Real life graphs

Linear graphs
Quadratic, kinematic, cubic graphs
Equation of a circle
Rates of change
Area under graphs

Solving quadratic equations
Inequalities
Simultaneous equations
Probability
Tree diagrams
Similarity \& congruence in 2D and 3D
Sine rule
Cosine rule
Pythagoras in 3D
Trigonometry in 3D
Trigonometric graphs
Accuracy and bounds
Frequency diagrams
Histograms
Averages from
grouped data
Cumulative frequency
graphs
Box plots
Scattergraphs
Time series graphs

