## AQA vs Edexcel Further Maths Topic Checklist

Order of difficulty from greatest to least: Edexcel iGCSE Further followed byAQA GCSE Further

AQA GCSE: 2 papers (one calculator, one non calculator)
Edexcel iGCSE: 2 papers (both calculator)
AQA GCSE: 2 papers (one calculator, one non calculator)

|  | AQA Further GCSE | Edexcel Further iGCSE |
| :---: | :---: | :---: |
| Number |  |  |
| Product Rule for Counting |  |  |
| Algebra |  |  |
|  |  |  |
| Factorising (common factor, product sum, AC method, grouping, diff of 2 squares) |  |  |
| Completing the square |  |  |
| Indices |  |  |
| Surds |  |  |
| Solving linear equations |  |  |
| Solving quadratic equations (via factorising, quadratic formula and completing the square) |  |  |
| Simultaneous equations (linear and quadratic) - $\mathbf{2}$ unknowns (algebraic and graphical solutions) |  |  |
| Simultaneous equations (linear) - 3 unknowns |  |  |
| Forming equations - linear and quadratic |  |  |
| Forming equations - Cubic |  |  |
| Solving inequalities - linear |  |  |
| Solving inequalities - quadratic |  |  |
| Graphs of linear inequalities (shading) |  |  |
| Binomial expansion |  |  |
| Algebraic fractions |  |  |
| Re-arranging equations to make the subject |  |  |
| Factor theorem |  |  |
| Remainder theorem |  |  |
| Polynomial division |  |  |
| Solving cubics |  |  |
| Algebraic Proof |  |  |
| nth term of linear sequences |  |  |
| nth term of quadratic sequences |  |  |
| Sequences - nth term and limiting value |  |  |
| Functions |  |  |
| Functions - basics |  |  |
| Functions - composite and inverse |  |  |
| Functions - Knowing when an inverse exists |  |  |
| Functions - domain and range |  |  |
| Graphing |  |  |
| Sketching functions - linear, quadratic, cubic, rational |  |  |
| Sketching functions - exponential |  |  |
| Sketching functions - trig |  |  |
| Sketching functions - piecewise |  |  |
| Exponentials and Logarithms |  |  |
| Exponential and log graphs |  |  |
| Log rules/properties (index, multiplication, division, power and change of base) |  |  |
| Converting an exponential to a linear form |  |  |
| Solving exponentials |  |  |
| Modelling - growth and decay |  |  |
| Series |  |  |
| $\sum$ notation |  |  |
| Arithmetic and geometric series |  |  |
| Coordinate Geometry - Straight Line Graphs |  |  |
| Gradients |  |  |
| Midpoints |  |  |
| Distance between two points |  |  |
| Use ratio to find the coordinates of a point on a line given the coordinates of 2 other points |  |  |
| Equation of a straight line (drawing and finding the equation) |  |  |
| Parallel and perpendicular lines |  |  |

www.mymathscloud.com


