## iGCSE Maths Topic Checklist

The grade boundaries have been given as percentages below, but these are not set in stone. Boundaries fluctuate depending on how hard everyone found the papers for that particular year. For a particular grade you need to be able to do the topics for that grade plus all the topics for the grades below.

GCSEs are offered at foundation and higher tiers. The foundation paper caps grades at Grade 5 . The higher paper has a minimum grade of Grade 4, with anything under that becoming ungraded. In the exam papers, there are some questions which overlap because everyone learns some of the same content - higher tier students learn what foundation tier students do plus extra. Foundation tier courses will therefore have less content and only content up until a grade 5.

| $\because \square \square^{\circ} \square$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Grade 1 (Low F or G 10\%) |  |  |  |  |
| Addition of integers and decimals |  |  |  |  |
| Subtraction of integers and decimals |  |  |  |  |
| Multiplication of integers and decimals |  |  |  |  |
| Division of integers and decimals |  |  |  |  |
| Ordering integers and decimals |  |  |  |  |
| Reading scales |  |  |  |  |
| Fractions- writing, simplifying and ordering |  |  |  |  |
| Rounding |  |  |  |  |
| Place value |  |  |  |  |
| Time |  |  |  |  |
| Coordinates |  |  |  |  |
| Names of polygons |  |  |  |  |
| Names of angles |  |  |  |  |
| Tally charts |  |  |  |  |
| Pictograms |  |  |  |  |
| Negative numbers |  |  |  |  |
| Powers and roots |  |  |  |  |
| Factors and Multiples |  |  |  |  |
| BIDMAS |  |  |  |  |
| Grade 2 (Low E or High F 15\%) |  |  |  |  |
| Calculation money problems |  |  |  |  |
| Fractions of an amount |  |  |  |  |
| Fractions, decimals and percentages (converting between) |  |  |  |  |
| Algebra - collecting like terms (adding and multiplying) |  |  |  |  |
| Estimation |  |  |  |  |
| Function machines |  |  |  |  |
| Perimeter and area (squares, rectangles, trapezium, parallelograms and triangles) |  |  |  |  |
| Probability - scales |  |  |  |  |
| Frequency polygons |  |  |  |  |
| Calculating averages from lists (mean and median) |  |  |  |  |
| Bar charts |  |  |  |  |
| Stem and leaf |  |  |  |  |
| Pie charts |  |  |  |  |
| Grade 3 (D or E 20\%) |  |  |  |  |
| Fractions - adding, subtracting, multiplying and dividing $\quad 1$ |  |  |  |  |
| Ratio - writing as a fraction and simplifying |  |  |  |  |
| Proportion - recipes and ingredients |  |  |  |  |
| Ratio - sharing |  |  |  |  |
| Percentages- finding percentages of amounts |  |  |  |  |
| Percentages - increase/decrease |  |  |  |  |
| Percentage Change |  |  |  |  |
| Exchange rate |  |  |  |  |
| Conversions and units |  |  |  |  |
| Scale drawings |  |  |  |  |
| Best buy questions |  |  |  |  |
| Number substitution |  |  |  |  |
| Solving linear equations (including with an unknown on both sides) |  |  |  |  |
| Drawing graphs - plugging into tables and plotting the points |  |  |  |  |
| Area and circumference of circles |  |  |  |  |
| Area of compound shapes |  |  |  |  |
| Frequency tables |  |  |  |  |
| Transformations of shapes (reflections, enlargements rotations and translations) |  |  |  |  |




