## GCSE/iGCSE Maths Topic Checklist

The iGCSE (iGCSE A) exam is more formulaic and requires less problem-solving skills than GCSE. There is a lot of solving and practical application of Maths in GCSE unlike iGCSE where there are many calculation-style questions. The questions are more routine in iGCSE due to the fact that this is an international exam where English is not the first language of most students. There is a formula sheet provided for the iGCSE exam whereas there is no formula sheet for the GCSE exam and students must have all formulae memorised. There is no coursework in either course.

It should not really be a question of whether there are more or less topics in Edexcel iGCSE than GCSE since GCSE has topics which are not included in iGCSE and vice versa and the difficulty level doesn't stem from this. There are actually more topics in GCSE and they are studied in greater depth and application. A significant chunk of marks are allocated to functional and problem-solving questions that many students seem to find hard to prepare for. Edexcel iGCSE has less topics, but does contain some additional challenging contents (such as basic calculus) that one would have to learn if they aspired to a level 9 grade and there is more actual maths involved (e.g. solving equations), but this can be prepared for well with practice and memorising/following set methods.

Note: There is also an Edexcel B course aimed at more international institutions and I have never encountered someone in the UK taking it. It has extra topics than Edexcel A which include matrices, factor theorem, algebraic division and factorising a cubic. It is only available at higher tier.

|  | GCSE | IGCSE <br> A |
| :---: | :---: | :---: |
| 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, median) |  |  |
| Bar charts |  |  |
| Stem and leaf |  |  |
| Pie charts |  |  |
| Systematic listing strategies |  |  |
| Grade 3 (D or E 20\%) |  |  |
| Error intervals |  |  |
| Fractions - adding, subtracting, multiplying and dividing |  |  |
| 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 |  |  |


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