## GCSE Maths Topic Checklist

## GCSE Topics

| 2D shapes - area and perimeter (squares, rectangles, trapezium, parallelograms and triangles) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 2D shapes - area of compound shapes |  |  |  |  |
| 3D shapes - surface area and volume of spheres, cones and frustrums (including with algebra) |  |  |  |  |
| 3D shapes - surface area and volume of prisms and cylinders (including with algebra) |  |  |  |  |
| 3D Pythagoras |  |  |  |  |
| Addition of integers |  |  |  |  |
| Algebraic fractions |  |  |  |  |
| Algebra - collecting like terms (adding and multiplying) |  |  |  |  |
| Angles in parallel lines |  |  |  |  |
| Angles in polygons |  |  |  |  |
| Area of any triangle |  |  |  |  |
| Bar charts |  |  |  |  |
| Basic Probability-conditional probability with algebra |  |  |  |  |
| Bearings |  |  |  |  |
| Best buy questions |  |  |  |  |
| BIDMAS |  |  |  |  |
| Bounds |  |  |  |  |
| Box plots |  |  |  |  |
| Calculation money problems |  |  |  |  |
| Circles - area and perimeter |  |  |  |  |
| Circle theorems |  |  |  |  |
| Completing the square |  |  |  |  |
| Congruent shapes |  |  |  |  |
| Conversions and units |  |  |  |  |
| Coordinates |  |  |  |  |
| Cumulative frequency |  |  |  |  |
| Decimals - addition, subtraction, multiplication and division |  |  |  |  |
| Decimals - recurring decimals to fractions |  |  |  |  |
| Direct and inverse proportion |  |  |  |  |
| Distance and velocity time graphs |  |  |  |  |
| Division of integers |  |  |  |  |
| Drawing graphs by plugging into tables and plotting the points |  |  |  |  |
| Drawing quadratic graphs |  |  |  |  |
| Enlargements - negative scale factor |  |  |  |  |
| Error intervals |  |  |  |  |
| Estimating |  |  |  |  |
| Exchange rate |  |  |  |  |
| Expanding brackets (including triple brackets) |  |  |  |  |
| Exponential functions and exponential growth |  |  |  |  |
| Factorising |  |  |  |  |
| Factors and Multiples |  |  |  |  |
| Forming and solving equations |  |  |  |  |
| Fractions - adding, subtracting, multiplying and dividing |  |  |  |  |
| Fractions of an amount |  |  |  |  |
| Fractions- writing, simplifying and ordering |  |  |  |  |
| Fractions, decimals and percentages (converting between) |  |  |  |  |
| Frequency Polygons |  |  |  |  |
| Frequency tables |  |  |  |  |
| Function machines |  |  |  |  |
| Functions - inverse and composite |  |  |  |  |
| HCF and LCM |  |  |  |  |
| Histograms |  |  |  |  |
| Indices |  |  |  |  |
| Indices - fractions and negative powers |  |  |  |  |
| Inequalities - representing on a number line |  |  |  |  |
| Inequalities - solving equations |  |  |  |  |
| Inequalities on graphs - shading |  |  |  |  |
| Inequalities - quadratics |  |  |  |  |
| Iteration |  |  |  |  |
| Loci and construction |  |  |  |  |
| Mean and median |  |  |  |  |
| Multiplication of integers |  |  |  |  |
| Names of angles |  |  |  |  |
| Names of Polygons |  |  |  |  |
| Negative numbers |  |  |  |  |



