|  |  |  |  |
| --- | --- | --- | --- |
| Grade C | | | |
|  |  | http://t0.gstatic.com/images?q=tbn:ANd9GcTeRH-bOT_u7G8H8AXYSTwSZmErN3TuvC41_Ru-BaTrgOqcbV_5 | http://t2.gstatic.com/images?q=tbn:ANd9GcRxj69yoQzTTscIAdoHeRfXI80z1zv87eXH_bfrTTAuZKnAUUB6 |
| Expressing a number as a product of its prime factors (LCM and HCF) |  |  |  |
| Indices |  |  |  |
| **Trial and Improvement** |  |  |  |
| Drawing Graphs (Straight line and quadratic) |  |  |  |
| Sequences (nth term) |  |  |  |
| Expand and Factorise single brackets |  |  |  |
| Solving Equations |  |  |  |
| Questionnaires |  |  |  |
| Scatter Graphs (correlation, line of best fit) |  |  |  |
| Ratio/Proportion |  |  |  |
| Using Percentages (% change, % of amount, reverse %) |  |  |  |
| Volume and Surface Area |  |  |  |
| Area /Circumference of Circles |  |  |  |
| **Pythagoras** |  |  |  |
| Frequency Polygons |  |  |  |
| Stem and Leaf |  |  |  |
| Angles (Corresponding, alternate, internal and external angles of polygons) |  |  |  |
| Transformations (Enlargement, Reflection, Rotation, Translation) |  |  |  |
| Grade B | | | |
| Density (density = mass/volume) and Speed (speed = distance/time) |  |  |  |
| Standard Form (multiply, divide, add, subtract) |  |  |  |
| Simultaneous Equations |  |  |  |
| Inequalities |  |  |  |
| Factorising**/**Expanding Quadratics |  |  |  |
| Solving Quadratic Equations (factorise and **formula**) |  |  |  |
| Cumulative Frequency, Box plots |  |  |  |
| **Estimating the mean** |  |  |  |
| **Trig (SOHCAHTOA)** |  |  |  |
| Probability (probability trees, AND/OR questions) |  |  |  |
| Grade A/A\* | | | |
| Scale Factor (Area and Volume) |  |  |  |
| Surds |  |  |  |
| **Rounding and Bounds** |  |  |  |
| y=mx+c (gradients of parallel and perpendicular lines) |  |  |  |
| Proportional Relationships y=kx, y=k/x |  |  |  |
| Sectors/Segments/Arc Lengths |  |  |  |
| **Sine Rule, Cosine Rule, Area of any triangle** |  |  |  |
| Transformations of Functions y = f(x) |  |  |  |
| Vectors |  |  |  |
| Circle Theorems |  |  |  |
| **Stratified Sampling** |  |  |  |
| Histograms |  |  |  |
| Algebraic Fractions |  |  |  |

**(Bold is usually calculator paper)**