

Summary Year 11 Higher

| | | G | A | R |
|--|---|---|---|---|
| 10: Linear graphs | 10.1 Drawing linear graphs from points | | | |
| | 10.2 Gradient of a line | | | |
| | 10.3 Drawing graphs by gradient-intercept and cover-up methods | | | |
| | 10.4 Finding the equation of a line from its graph | | | |
| | 10.5 Real-life uses of graphs | | | |
| | 10.6 Solving simultaneous equations using graphs | | | |
| | 10.7 Parallel and perpendicular lines | | | |
| 12: Similarity | 12.2 Areas and volumes of similar shapes | | | |
| 13: Exploring and applying probability | 13.1 Experimental probability | | | |
| | 13.2 Mutually exclusive and exhaustive outcomes | | | |
| | 13.3 Expectation | | | |
| | 13.4 Probability and two-way tables | | | |
| | 13.5 Probability and Venn diagrams | | | |
| 14: Powers and standard form | 14.1 Powers (indices) | | | |
| | 14.2 Rules for multiplying and dividing | | | |
| | 14.3 Standard form | | | |
| 15: Equations and inequalities | 15.6 Linear inequalities | | | |
| | 15.7 Graphical inequalities | | | |
| | 15.8 Trial and improvement | | | |
| 17: Quadratic equations | 17.1 Plotting quadratic graphs | | | |
| | 17.2 Solving quadratic equations by factorisation | | | |
| | 17.3 Solving a quadratic equation by using the quadratic formula | | | |
| | 17.4 Solving quadratic equations by | | | |
| | 17.5 The significant points of a quadratic curve | | | |
| | 17.6 Solving one linear and one non- | | | |
| | 17.7 Solving quadratic equations by | | | |
| | 17.8 Solving linear and non-linear simultaneous equations algebraically | | | |
| | 17.9 Quadratic inequalities | | | |

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| 18: Sampling and more complex diagrams | 18.1 Collecting data | | | |
| | 18.2 Frequency polygons | | | |
| | 18.3 Cumulative frequency graphs | | | |
| | 18.4 Box plots | | | |
| | 18.5 Histograms | | | |
| 19: Combined events | 19.1 Addition rules for outcomes of events | | | |
| | 19.2 Combined events | | | |
| | 19.3 Tree diagrams | | | |
| | 19.4 Independent events | | | |
| | 19.5 Conditional probability | | | |
| 20: Properties of circles | 20.1 Circle theorems | | | |
| | 20.2 Cyclic quadrilaterals | | | |
| | 20.3 Tangents and chords | | | |
| | 20.4 Alternate segment theorem | | | |
| 21: Variation | 21.1 Direct proportion | | | |
| | 21.2 Inverse proportion | | | |
| 22: Triangles | 22.1 Further 2D problems | | | |
| | 22.2 Further 3D problems | | | |
| | 22.3 Trigonometric ratios of angles between 0° and 360° | | | |
| | 22.4 Solving any triangle | | | |
| | 22.5 Using sine to calculate the area of any triangle | | | |
| 23: Graphs | 23.1 Distance-time graphs | | | |
| | 23.2 Velocity-time graphs | | | |
| | 23.3 Estimating the area under a | | | |
| | 23.4 Rates of change | | | |
| | 23.7 Transformations of the graph $y = f(x)$ | | | |
| 24: Algebraic fractions and | 24.1 Algebraic fractions | | | |
| | 24.2 Changing the subject of a | | | |
| | 24.3 Functions | | | |
| | 24.4 Composite functions | | | |
| | 24.5 Iteration | | | |
| 25: Vector geometry | 25.1 Properties of vectors | | | |
| | 25.2 Vectors in geometry | | | |