

|  |
| --- |
| Programme of StudySubject: MathsYear 10E Accelerated Set: |
|   |
|  |  **Autumn 1** |
| **Linear Graphs:****Drawing linear graphs from points, Gradient of a line, Drawing graphs Using the gradient and y-intercept.****Finding the equation of a line from its graph.****Real-life uses of graphs, Solving simultaneous equations graphically, Parallel and perpendicular Lines.****Right-Angled Triangles:****Pythagoras’ Theorem in 2D and 3D, Tangent trigonometric ratio.****Cosine and Sine trigonometric ratio.****Mix of problems involving SOHCAHTOA, Solve problems involving bearings.** |  |
|  |  **Autumn 2** |
| **Similar Shapes****Similar Triangles****Areas and Volumes of similar shapes****Exploring Probability:****Experimental probability, Mutually Exclusive and Exhaustive Events, Expectation.****Probability and Two-Way Tables, Probability and Venn Diagrams** |  |
|  |  **Spring 1** |
| **Powers and Standard Form:****Rules of Powers/Indices****Standard form****Equations and Inequalities:****Linear equations including worded problems, Solving simultaneous equations via the elimination method****Solving simultaneous equations via substitution, Worded problems involving simultaneous equations****Linear inequalities, Graphical inequalities****Graphical inequalities, Trial and Improvement** |  |
|  |  **Spring 2** |
| **Counting, Accuracy, Powers and Surds:****Rational numbers, Reciprocals, Terminating and Recurring Decimals, Estimating powers and roots****Negative and fractional powers****Surds, Limits of accuracy and their limitations****Choices and Outcomes****Quadratic Equations:****Plotting quadratic equations/functions, Solving quadratic equations****Solving quadratic equations** |  |
|  |  **Summer 1** |
| **Quadratic Equations:****Important points and characteristics of a quadratic curve, Simultaneous equations: One linear and one non-linear****Quadratic inequalities****Sampling and More Complex Diagrams****Sampling, Frequency Polygons, Cumulative frequency graphs****Sampling and More Complex Diagrams****Box Plots, Histograms** |  |
|  |  **Summer 2** |
|  **Combined Events:****Addition rules for outcomes of events, Combined events, such as throwing two dice, Tree diagrams****Addition rules for outcomes of events, Combined events, such as throwing two dice, Tree diagrams****End of Year Revision** |  |