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| Programme of Study  Subject: Maths  Year 10E Accelerated Set: | | |
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|  | **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** | |  |