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| Programme of Study  Subject: Maths  Year 10C: | | |
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|  | **Autumn 1** | |
| **Angles:**  **Angle facts, Triangles, Angles in polygons**  **Angles on parallel lines, Special quadrilaterals, Scale drawings and bearings**  **Powers:**  **Rules of Powers/Indices**  **Algebraic Manipulation:**  **Basic algebra, Factorisation, Quadratic Expansion**  **Expanding squares, More than two binomials**  **More than two binomials, Quadratic factorization** | |  |
|  | **Autumn 2** | |
| **Algebraic Manipulation:**  **Changing the subject of a formula**  **Length, Area and Volume:**  **Circumference and area of a Circle. Area of a Parallelogram**  **Area of a trapezium, Sectors**  **Volume of a Prism, Cylinders**  **Volume of a Pyramid, Cones, Spheres** | |  |
|  | **Spring 1** | |
| **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**  **Standard Form:**  **Standard form**  **Linear Graphs:**  **Drawing linear graphs from points, Gradient of a line, Drawing graphs Using the gradient and y-intercept.** | |  |
|  | **Spring 2** | |
| **Linear Graphs:**  **Finding the equation of a line from its graph.**  **Real-life uses of graphs, Solving simultaneous equations graphically, Parallel and perpendicular Lines.**  **Exploring Probability:**  **Experimental probability, Mutually Exclusive and Exhaustive Events, Expectation.**  **Probability and Two-Way Tables, Probability and Venn Diagrams.**  **Probability and Two-Way Tables, Probability and Venn Diagrams.** | |  |
|  | **Summer 1** | |
| **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**  **Similar Shapes:**  **Similar Triangles** Areas and Volumes of similar shapes | |  |
|  | **Summer 2** | |
| **Transformations, Constructions and Angles:**  **Congruent triangles, Rotational symmetry, Transformations**  **Transformations, Combination of Transformations**  **Bisectors and Constructions, Defining a locus**  **Defining a locus, Loci problems, Plans and elevations**  **Revision** | |  |