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| Programme of StudySubject: MathsYear 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** |  |