MATHEMATICS SCHEME
S.S.2

SN	TOPIC	TOPICS
1.	Approximation	- Logarithm of numbers greater than one (1) - Logarithms of numbers less than one (1) - Powers and roots of logarithms of numbers greater than one (1), multiplication and division of logarithms of numbers less than one (1)
2.	Linear Inequalities	- Linear inequalities in one variable, combining inequalities, representation of linear inequalities using number lines - Graph of linear inequalities in two variables - Solutions of simultaneous inequalities in two variables, using inequalities to solve practical problems
3.	Quadratic Equations	- Derivation of quadratic formula from the general equation - Word problems leading to quadratic equations
4.	Probability	- Experimental probability - Theoretical probability - Mutually exclusive events (addition of probability) - Independent events (multiplication of probability) - Representation and calculation using TREE diagram -
5.	Sequence and Series	- Arithmetic progression (AP) - Recognition of sequence - Determining the common difference and the nth term of arithmetic progression sum of the n-terms of arithmetic progression - Geometric progression (GP) - The common ratio of a geometric progression - Sum of n-terms of geometric progression
6.	Quadratic Graph	- Using quadratic graph to solve a related equation for example. Graph of $y = x^2 + 5x + 6$ to solve $x^2 + 5x + 4 = 0$

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7.	Graphical solution of a pair of equation	- Solving graphically a pair of equations - One linear one quadratic for example, $y = ax^2 + bx + c$ and $y = mx + k$ where a, b, c, k and m are constants
8.	Plane geometry	- Angle and plane - Congruent triangles - Parallelogram - Intercepts and midpoint
9.	Angles and Polygon	- Sum of interior angles of a polygon - Sum of exterior angles of a polygon - Number of sides of a polygon
10	Trigonometry	- Trigonometric ratio of angle 30^o, 45^o, 60^o, etc - Pythagoras theorem - Sine, cosine and tangent of angles from $0^o – 360^o$, sine and cosine graphs - Solution of triangles, angles of elevations and depression
11	Bearings and Distances	- Bearings and distances -
12	Circle Theorem	- Steps in a formal proof of a theorem - Steps in solving a rider theorems and riders - Angles at the centre - Circumference of a circle - Angles in the same segment of a circle etc

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13.		- Surface area and volume of solids - Cube, cuboid - Prism - Pyramid - Surface area of frustum of a cone and pyramid - Composite shapes
14.	Data Presentation	- Revision of collection, tabulation and presentation of data - Frequency distribution - Linear graphs, Bar chart (graph) and Histogram - Pie chart - Frequency polygon
15.	Measurement of Central Tendency	- Mean, Mode and Median - Mode from Histogram - Mean and median from tables - Range - Variance and Standard deviation
16.	Trigonometric ratio $0^o < \theta < 360^o$	- Trigonometric ratios - Graphs of sine and cosine for $0^o < \theta < 360^{o\backslash}$

		- Deduction from the sine and cosine graphs
17.	Construction	- Locus of points from 2 lines - Locus of points from 2 points - Locus of points from a constant point