



*Dr. Bbosa Science*

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**S5 Submath syllabus**

Term	Topic	Sub-topics	Periods		
<b>Term 1</b>	1.	Matrices variables	1.1	Simultaneous Equations in 2 variables	20
			1.2	Simultaneous Equations in 3 variables	
	2.	Quadratics Equations	2.1	Formation of Quadratic	22
			2.2	Optimising Quadratic Functions	
	3.	Descriptive Statistics	3.1	Measures of Variation (Dispersion)	30
3.2			Measures of Relative Positions		
<b>Total</b>			<b>72</b>		
<b>Term 2</b>	4.	Numerical Concepts	4.1	Equations Reducing to Quadratics	22
			4.2	Logarithms	
	5.	Series	5.1	Arithmetic Progression	16
			5.2	Geometric Progression	
	6.	Permutations and Combinations	6.1	Permutations	18
			6.2	Combinations	
	7.	Time Series Analysis	7.1	Moving Averages	16
7.2			Index Numbers		
<b>Total</b>			<b>72</b>		
<b>Term 3</b>	8.	Scatter Diagrams and Correlations	8.1	Scatter Diagrams	20
			8.2	Correlations	
	9.	Vectors	9.1	Magnitude and Direction of Vectors	23
			9.2	Dot Product (Scalar Product) and Angle Between Two Vectors	
10.	Trigonometry	10.1	Trigonometric (Pythagorean) Identities	29	
		10.2	Special Angles in Trigonometry		
		10.3	Quadratic Trigonometric Equations	72	

## S6 Submath syllabus

Term	Topic	Sub-topics	Periods	
<b>Term 1</b>		11. Probability Theory	11.1 Conditional Probability	32
	12.	Differentiation	12.1 Derivative of a Function	40
			12.2 Maximization and Minimization	
			12.3 Curve Sketching	
			12.4 Displacement, Velocity and Acceleration	
<b>Total</b>			<b>72</b>	
<b>Term 2</b>	13.	Integration	13.1 Definite and Indefinite Integrals	36
			13.2 Area Under the Curve	
			13.3 Displacement, Velocity and Acceleration	
	14.	Random Variables	14.1 Discrete Random Variables	36
			14.2 Continuous Random Variables	
	<b>Total</b>			<b>72</b>
<b>Term 3</b>	15.	Probability Distributions	15.1 Binomial Distribution	36
			15.2 Normal Distribution	
	16.	Differential Equations	16.1 Concept of a Differential Equation	24
			16.2 Solutions of a Differential Equation	
	<b>Total</b>			<b>60</b>

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Thanks

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