THE LESTER VAUGHAN SCHOOL MATHEMATICS DEPARTMENT

FIRST YEAR 2015-2016 Term 1

<u>lerm 1</u>			
TOPIC	MAIN OBJECTIVES	DURATION	
1. CCSLC Module 1: Number and Number Sense	 (a) Properties of Numbers; (b) Number Patterns; (c) Symbolic Representations; (d) Ratio; (e) Use of the Calculator 	5 weeks	
2. CCSLC Module 3: Spaces in the Environment	(a) Lines, Angles, Direction	4 weeks	
3. Project: Portfolio (Number & Number Sense)	 (a) Number Pattern (b) Number Chart (c) Number Puzzle (d) Use of the Calculator 	4 weeks	

SECOND YEAR TOPICS 2015-2016				
<u>Term 1</u>				
TOPIC	MAIN OBJECTIVES	DURATION		
1. CCSLC Module 1: Number and	(c) Symbolic Representations;			
Number Sense	(d) Ratio;	2 weeks		
	(e) Use of the Calculator			
2. Project: Portfolio (Number &	(a) Number Pattern			
Number Sense)	(b) Number Chart	2 weeks		
itumber bense)	(c) Number Puzzle	2 WEEKS		
	(d) Use of the Calculator			
3. CCSLC Module 2: Conscious	(a) Percentages;			
Consumer	(b) Currency;			
	(c) Household Bills;	3 weeks		
	(d) Purchasing;	3 weeks		
	(e) Taxes;			
	(f) Wages, Salary and Commission			
4. Project: Investigation (Conscious	Comparison of the cost of two similar			
Consumer)	items OR two decisions to determine	3 weeks		
	which is more feasible			
5. CCSLC Module 3: Spaces in the	b) Plane Shapes	3 weeks		
Environment				

SECOND YEAR TOPICS 2015-2016

<u>Term 1</u>			
TOPIC	TOPICMAIN OBJECTIVES		
1. Algebra	 (a) Binary operations; (b) Linear inequalities (one unknown) (c) Linear equations (d) Distributive law (e) Algebraic fractions (f) Laws of indices (g) Simultaneous linear equations 	5 weeks	
2. Consumer Arithmetic	(a) Hire purchase(b) Simple interest(c) Compound Interest/Depreciation	4 weeks	
3. Trigonometry	(a) Pythagoras' theorem(b) Trigonometric ratios	4 weeks	

THIRD YEAR TOPICS 2015-2016

FOURTH YEAR TOPICS 2015-2016 (Section 1 of CSEC Mathematics Paper) Term 1

TOPIC	MAIN	OBJECTIVES	DURATION
Question 1: Computation, Number Theory,	a)	Fractions,	
Consumer Arithmetic	b)	Decimal places, Significant	
		figures, Standard form	
	c)	Ratio	
	d)	Use of calculator	
	e)	Currency conversions, Price comparisons	3 weeks
	f)	Simple/Compound Interest	
	g)	Percentage Profit & Loss	
	h)	Hire Purchase	
	i)	Wages & Salaries	
Question 2: Algebra	a)	Substitution	
	b)	Algebraic expression	
	c)	Algebraic Fractions	
	d)	Equations & Inequations	
	e)	Simultaneous Linear Equations	3 weeks
	f)	Factorization	
	g)	Changing the subject of the formula	
Question 3: Set Theory, Matrices	a)	Types of numbers; even, odd,	
		factors, multiples, prime numbers	
	b)	Universal set, Subset,	
		Complement	3 weeks
	c)	Venn diagrams	
	d)	Union & Intersection	
	e)	Set Notation	

	 f) Perform addition and subtraction of matrices g) Multiply matrices by a scalar h) Perform pre- and post- multiplication of matrices
Question 4: Relations, Functions & Graphs	 a) Composite functions b) Inverse functions c) Undefined functions d) Table of values e) Straight line graphs f) Gradient of a line g) Midpoint of a line segment h) Length of a line i) Equation of a line/perpendicular line

FIFTH YEAR TOPICS 2015-2016 (Section 1 of CSEC Mathematics Paper) <u>Term 1</u>

Question 1: Computation, Number Theory, Consumer Arithmetic	
Question 2: Algebra	
Question 3: Set Theory	
Question 4: Relations, Functions & Graphs	
Question 5: Transformational Geometry/Trigonometry	
Question 6: Measurement	
Question 7: Statistics	
Question 8: Number Patterns	