

SRI LANKAN SCHOOL - MUSCAT			SCHEME OF WORK		ACADEMIC YEAR 2016/ 2017	
CLASS : Year 11			SUBJECT: MATHEMTICS		TEACHER : Geethanjali Rajakaruna	
Month	No.of Periods	Unit No.	TOPIC / DETAILS	Intended Learning Objectives	Date of Completion	Remarks
September						
Week 1	3	1.1	Sets- Set Language notation,Venn Diagram	To describe Sets,defined in algebraic terms.Use Venn diagrams to represent sets.		
Week 2	8	1.2	Using Sets in practical situations.	To use Sets in prectical situations,Calculate the exact solution of two simulatenous equations in two unknowns.		
Week 3			Eid Ul Adha			
Week 4	8	2.1	Simultaneous Equations- Solving Simultaneous Equations	To intrepet the equation as lines and the commmon solution as the point of intersection.		
Week 5	3	2.2	Quadratic equtions- Solving Quadratic Equations	To solve quadratic equations by factorization and using the quadratic formula		
	5	2.3	Inequalities - Solving inequalities	To solve inequalities,shade the region defined by the inequality, Monthly Test		
October						
Week 6	8	3.1	Graphical Solution- Graphs of quadratic and cubic functions	To plot and draw graphs(quadratic and cubic),find the gradients of non linear graphs		
Week 7	8	4.1	Sine and Cosine Rule- Bearing and Scale drawings	To use the Sine and Cosine Rule for any tringle,find the area using the formula $(1/2ab \sin C)$		
Week 8	8	5.1	Independent events - Drawing tree diagrams, find probabilities	To draw and use Tree Diagrams		
Week 9	8	5.2	Sampling without replacement, More conditional probability	To determine the probabily that two or more independent events will both occur,apply Probability to simple problems. Monthly Test		
November						
Week 10	5	5.3		To apply probability to simple problems		
Week 11	8	6.1	Differentiation - Rates of change, Gradient of a curve, turning points	To describe the concept of avariable rate of change		

Week 12	8	6.2	Equation of a tangent to a curve	To differentiate integer powers of x		
Week 13	8	6.3		To find the coordinates of the maximum and minimum points Monthly Test		
Week 14	6		Revision	First Term Test Revision		
December						
Week 14	2		Revision	First Term Test Revision		
Week 15	5		Revision & 1 st term test			
Week 16			1st term test			
Week 17			Paper coorection			
Week 18			December Vacation			

January						
Week 19			Vacation			
School Reopens - 2nd Term						
Week 20	8	6.4	Kinematics	To apply calculus to linear kinematics and to other simple practical problems, to use the concept of average		
Week 21	8	7.1	Statistics, Mean, Mode, Median and Range	To calculate the mean, median, mode and range. Identify the model class for grouped data.		
Week 22	8	8.1	Functions - Function notation, domain and range	To use the concept that a Function is a mapping between elements of 2 sets.		
Week 23	5	8.2	Inverse functions,	To recognize the terms domain and range and which values may need to be excluded from the domain. To find the composite function.		
February						
Week 23	3	9.1	Histograms	To construct and interpret histograms		
Week 24	8	9.2	Histograms	Draw histograms and solve problems Monthly Test		
Week 25	8	10.1	Vectors - Vector notation, combining and parallel vectors	To identify that a vector has both magnitude and direction.		
Week 26	8	10.2	Using vectors in geometry	To use the concept of vector notation.		
Week 27	4	10.3		Calculate the magnitude of a vector and multiply vectors by scalar quantities add and subtract vectors.		
March						
Week 27	4			Revision and Edexcel Past Papers		
Week 28-30	24					
April						
Week 30 -31			2nd term end exams			
Week 32			Paper correction			
Week 33			April vacation			
School Reopens - 3rd Term						
Week 34	5		Seminar			
Week 35	6		Seminar			
May/June						
Week 36-44	8		Edexcel Exams			
July						

Week 45			Summer Vacation			
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