

SRI LANKAN SCHOOL - MUSCAT		SCHEME OF WORK		ACADEMIC YEAR 2016/ 2017	
CLASS : Year 10		SUBJECT: Physics		TEACHER : Dinesh Weerasinghe	
Month	No.of Periods	Unit No.	TOPIC / DETAILS	Intended Learning Objectives	Remarks
September					
School Reopens - 1st Term					
Week 1	2	1	SI Units	Increasing knowledge and understanding of SI Units.	
Week 2	5	1.1	Movement and Position	Understand the basic concept such as vectors, scalars, distance, displacement, speed, velocity and acceleration.	
Week 3			ID HOLIDAYS		
Week 4	5	1.2	Graphs	Understanding the properties and shapes of distance time and velocity time graphs. Investigate the speed and the acceleration of glider using light gate system. Understand the role of ticker timer to find speed and acceleration.	
Week 5	5	2	Forces and Shapes	Identify the properties of different type of forces. Understand the concept of Resultant force. Identify the factors which determine the size of friction. Understand the concept of Hooke's Law	
October					
Week 6	4		Revision	will be able to Understand the relationship between force mass and acceleration (Newton's 2nd law).	
Week 7	5	3	Forces and movement	will be able to Identify the concepts such as Thinking distance, Breaking distance and stopping Distance	
Week 8	5	3.1	Air resistance and Terminal velocity	will be able to Identify the concepts such as acceleration due to gravity, Air resistance and Terminal Velocity	
Week 9	5	4	Momentum	will be able to explain the concept of Momentum and Identify force as rate of change of momentum. Will be able to describe the law of conservation of linear momentum.	
November					
Week 10	3		Revision		
Week 11	5	5	The Turning effect of Forces	will be able to Identify the moment of force as a product of force and perpendicular distance from pivot. Understand the equilibrium of two forces.	
Week 12	5		Revision		
Week 13	5	6	Astronomy	will be able to Identify the type of objects in the solar system and the universe	
Week 14	5		Revision		
December					
Week 15	2		Revision		
Week 16			1st term end exams		
Week 17			1st term tests and report work		
Week 18 / 19			December Vacation		
January 2017					
School Reopens - 2nd Term					

Week 20	5	7	Mains Electricity	will be able to identify features of domestic electric circuits	
Week 21	5	8	Electric charge	will be able to identify the type charges, behavior of charges due to attractive and repulsive forces, voltage and current	
Week 22	5	9	Current and voltage in circuit		
Week 23	3	10	Electric Resistance	will be able to identify resistance as a ratio between voltage and current	
February					
Week 24	5	11	Revision		
Week 25	5	12	Properties of Waves.	will be able to describe properties of waves . Will be able to list uses of different types of waves. Will be able to give examples of applications of waves.	
Week 26	5	13	Using Waves		
Week 27	3	14	Light Waves	will be able to describe light as an electromagnetic wave. Will be able to list properties of light waves. Will be able to describe the refractive index of materials	
March					
Week 27	3	15	Sound Waves	will be able to identify sound wave as a longitudinal wave. Will be able to list properties of sound waves.	
Week 28	5		Revision		
Week 29	5		Revision		
Week 30	5		Revision		
Week 31			2nd term end exams		
April					
Week 32			2nd term end exams and report work		
Week 33			April vacation		
Week 34			School Reopens - 3rd Term		
Week 35	3	16	Energy Transfer	will be able to list and describe Energy transfer method such as Conduction Convection and Radiation	
May					
Week 36	3	17	Thermal Energy	will be able to list and describe Thermal Energy transfer method such as Conduction Convection and Radiation	
Week 37	4	18	Work and Power	will be able to describe work as product of force and distance moved along the direction of force. Will be able to express power as a ratio between energy and time	
Week 38	5	19	Energy Resources and Electricity Generation	Will be able to list energy resources used to generate electricity.	
Week 39	5	20	Density and Pressure	will be able to describe density as a ratio between mass and volume. Will be able to describe Pressure as a ratio between force and area.	
Week 40	4		Revision		
June					
Week 41	5		Revision		
Week 42	3		Revision		
Week 43			3rd term end exams		

Week 44			3rd term end exams		
Week 45			3rd term end exams and report work /PTI		
July					
Week 46			Summer vacation		

