



Dharmapala College - Pannipitiya
Grade 9 Syllabuses – Science- 2011

Unit	Competencies		Competency levels	Time	Scheduled date	Date of Completion	Remarks
1.	Observes the environment as a scientist.	1.1	Uses scientific method to investigate phenomena in the environment.				
		1.2	Uses microscope to observe				
		1.3	Investigates the importance of micro-organisms.				
		1.4	Uses laboratory equipments appropriately.				
2.0	Investigates to identify the nature of earth and space.	2.1	Investigates the development of various views on solar system.				
		2.2	Investigates on constellations.				
		2.3	Inquires about the information on the nature of space.				
3.0	Uses concepts, principles and theories, related to energy, work and force effectively.	3.1	Elaborates on simple linear motion by using vector and scalar quantities.				
		3.2	Investigates appropriate mechanical strategies used in various work sites.				
		3.3	Investigates on qualitative and quantitative aspects of global energy resources.				
		3.4	Investigates the use of alternative energy resources as a solution for energy crisis.				

SECOND TERM

Unit	Competencies		Competency levels	Time	Scheduled date	Date of Completion	Remarks
4.0	Inquiries on the properties, uses and interactions of matter.	4.1	Explores evidences for the occurrence of a chemical reaction.				
		4.2	Investigates on the behavior of atoms.				
			4.3 Uses chemical symbols to denote elements.				
		4.4	Investigates on the interactions of metals and non-metals with air, water, acids & bases.				
		4.5	Investigates about alloys and their applications.				
		4.6	Conducts simple experiments to identify nutrient components in food.				
		4.7	Analyses criteria on the standards and quality in selecting suitable consumer goods.				
		4.8	Investigates on the properties and uses of composite materials.				
		4.9	Investigates on the properties and usages of polymers.				
		4.10	Prepares solutions to suit the requirements.				
		4.11	Conducts experiments to find out methods of generating of electricity.				
		4.12	Investigates on the uses of nano technology.				

THIRD TERM

Unit	Competencies		Competency levels	Time	Scheduled date	Date of Completion	Remarks
5.0	Investigates the diversity of plants.	5.1	Explores the morphological diversity of flowers.				
		5.2	Analyses the structure of flowers according to scientific conventions.				
		5.3	Explores the patterns of inflorescence.				
		5.4	Analyses the structure of fruits using scientific definitions.				
		5.5	Investigates on the adaptations of fruits and seeds for wide dispersal of plants.				
		5.6	Uses the diversity of life-time of plants to fulfill the day-today pursuits				
6.0	Uses generation and transmission of waves and their properties to fulfill day-to-day pursuits.	6.1	Uses the behaviour of light to fulfill day-to-day pursuits.				
		6.2	Uses the behavior of sound to fulfill day-to-day pursuits.				
7.0	Discovers the values of marvels in the environment.	7.1	Discovers the marvels in the world of animals.				
8.0	Exhibits the preparedness in management of natural disasters and associated risks.	8.1	Contributes to minimize the risks associated with drought.				
		8.2	Contributes to minimize disaster conditions associated with				

			tsunami.				
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