



Dharmapala College. Pannipitiya  
**GRADE 7 SCIENCE SYLLABUSES**

1 <sup>st</sup> term							
Unit	Competency		Competency Levels	Time	Scheduled date	Date of Completion	Remarks
<b>1.0</b>	<b>Explores the dynamic nature of the environment.</b>	1.1	Investigates the interactions between organisms. <ul style="list-style-type: none"> <li>● Mutual interactions that ensure the existence of organisms.               <ul style="list-style-type: none"> <li>● Interactions based on food                   <ul style="list-style-type: none"> <li>● Plant-plant</li> <li>● Plant-animal</li> <li>● Animal-animal</li> </ul> </li> <li>● Food chains and food webs</li> </ul> </li> <li>● Interactions based on protection               <ul style="list-style-type: none"> <li>● Caring for the young</li> <li>● Camouflage</li> <li>● Protective behaviour and strategies</li> </ul> </li> </ul>				
		1.2	Investigates the interactions between organisms and abiotic environment. <ul style="list-style-type: none"> <li>● Interactions between organisms and the abiotic environment that ensure the existence of organisms.               <ul style="list-style-type: none"> <li>● Interactions based on habitat                   <ul style="list-style-type: none"> <li>● related to plants</li> <li>● related to animals</li> </ul> </li> <li>● Interactions based on the need for substances and energy                   <ul style="list-style-type: none"> <li>● soil, water and air</li> <li>● light and heat</li> </ul> </li> <li>● Interactions based on the change in environmental factors                   <ul style="list-style-type: none"> <li>● hibernation</li> <li>● migration</li> </ul> </li> </ul> </li> </ul>				
		1.3	Investigates the mutual interactions between organisms and abiotic environment with time.				

		1.4	Investigates the interactions in abiotic environment.				
<b>2.0</b>	<b>Focusses attention on the environment quantitatively.</b>	2.1	Uses the measurements of volume to describe the materials and objects in the environment.				
		2.2	Uses the measurements of density to describe the materials and objects in the environment appropriately.				
		2.3	Uses the measurements of speed to describe the phenomena in the environment appropriately.				
		2.4	Uses the concept of rate to describe the phenomena in the environment appropriately.				
<b>3.0</b>	<b>Investigates the organizational patterns in the bodies of organisms.</b>	3.1	Investigates the patterns in the organization of animal body to perform life functions.				
		3.2	Investigates the patterns in the organization of plant body to perform life functions.				

2 <sup>nd</sup> term							
Unit	Competency		Competency Levels	Time	Scheduled date	Date of Completion	Remarks
<b>4.0</b>	<b>Makes inquiry to identify the nature of earth and space.</b>	4.1	Investigates on the components of lithosphere.				
		4.2	Utilizes soil while conserving its quality effectively.				
		4.3	Investigates on the solar system.				
		4.4	Investigates on the space explorations.				
<b>5.0</b>	<b>Inquires on the properties, uses</b>	5.1	Classifies matter using various criteria.				

	<b>and interactions of matter.</b>						
		5.2	Inquires on the interactions of various substances with water, acids and bases.				
		5.3	Uses the concept of specific gravity in day to day pursuits.				
		5.4	Inquires on the changes in properties of substances subjected to heat.				
		5.5	Uses thermal properties of substances effectively.				
			5.6 Explores the nature and effects of static electricity.				
		5.7	Selects appropriate materials to manipulate the electric current according to the situation.				
		5.8	Develops simple electric circuits				
		5.9	Conducts experiments to identify the chemical nature of substances that are in day to day use.				

3 <sup>rd</sup> term							
Unit	Competency		Competency Levels	Time	Scheduled date	Date of Completion	Remarks
6.0	Uses the concepts, principles and theories related to energy, work and force effectively.	6.1	Effectively manipulates force at appropriate instances.				
		6.2	Investigates on various forces and their applications.				
			6.3 Investigates on types of motions and their applications.				
		6.4	Uses machines to do work at ease.				
		6.5	Generates energy by various sources.				
		6.6	Uses strategies for transmission of mechanical energy according to the circumstances.				
		6.7	Employs strategies to use energy effectively.				
7.0	Discovers the values of marvels in the environment.	7.1	Discovers the information on marvels in the world of plants.				
		7.2	Discovers the information on marvels in the world of animals.				
		7.3	Discovers the information on marvels of earth and space.				
		7.4	Discovers the information related to marvels of human creations.				
8.0	Exhibits the preparedness in management of natural disasters and associated risks.	8.1	Contributes to minimize the risks associated with floods.				
		8.2	Contributes to minimize the risks associated with landslides.				