

CLASS : YEAR 7

SUBJECT: Science ( Biology )

TEACHER : Shermila Liyakath

Month	No. of Periods	Unit No.	TOPIC / DETAILS	Intended Learning Objectives	Remarks
<b>September 2016</b>					
<b>School Reopens - 1st Term</b>					
Week 1	1	1.1	Leaves, stems, and roots	Recognizes leaves, stems, and roots, and know their functions.	
Week 2	2	1.2	Questions, evidence and explanations	Learns the importance of questions, evidence, and explanations.	
Week 3	Eid Holidays				
Week 4	1	2.1	The human skeleton	Describes the structure and functions of the human skeleton, to include support, protection, movement and making blood cells. Describes the role of the skeleton. Learns why joints are needed.	
Week 5	2	2.2	Muscles and movement	Identifies why muscles are arranged in pairs. Monthly Test Predicts what will happen when a given muscle contracts. Learns biomechanics – the interaction between skeleton and muscles, including the measurement of force exerted by different muscles Learns the function of muscles and examples of antagonistic muscles	
<b>October 2016</b>					
Week 6	2	2.3	Organ systems	Recognizes the nervous, digestive, and respiratory systems. Describes what these organ systems do.	
Week 7	2	2.4	The circulatory system	Recognizes the circulatory system and describes what it does	
Week 8	2	2.5	Studying the human body	Recognizes that many scientists study the human body. Monthly Test	
Week 9	2	2.6	Extension: Extending lives	Recognizes that lives can be extended by replacing faulty organs.	
<b>November 2016</b>					
Week 10	1	3.1	The characteristics of living things	Identifies the seven characteristics of living things.	
Week 11	2			Recognize these characteristics in familiar and unfamiliar organisms.	
Week 12	2	3.2	Microbes	Describes how a microscope works. Recognizes four types of micro-organism.	
Week 13	2	3.3	Louis Pasteur	Recognizes that micro-organisms can be useful. Recognizes the importance of Pasteur's studies.	
Week 14	2	3.4	Testing predictions	Learns that scientists make predictions and check whether their evidence matches these predictions.	
<b>December 2016</b>					
Week 15	2		Revision and 1st Term test		
Week 16	1st Term End Exams				
Week 17	Paper Correction				
Week 18	December Vacation				
Week 19	December Vacation				

CLASS : YEAR 7		SUBJECT: Science ( Biology )		TEACHER : Shermila Liyakath	
Month	No. of Periods	Unit No.	TOPIC / DETAILS	Intended Learning Objectives	Remarks
<b>January 2017</b>					
<b>School Reopens - 2nd Term</b>					
Week 20	2	3.5	Useful micro-organisms	Learns how micro-organisms are used in food production. Identifies how we make food last longer.	
Week 21	2	3.6	Planning investigations	Learns to plan an investigation.	
Week 22	2	3.7	Harmful micro-organisms	Identifies what is meant by an 'infectious disease'	
				Gives some examples of diseases caused by micro-organisms.	
				Learns structural adaptations of some unicellular organisms.	
				Monthly Test	
				Describes how to avoid infections.	
Week 23	2	3.8	Plant and animal cells	Identifies hierarchical organization of multicellular organisms: from cells to tissues to organs to systems to organisms.	
				Identifies structures seen in plants and animals.	
				Identifies cells as the fundamental unit of living organisms, including how to observe, interpret and record cell structure using a light microscope.	
				Compares ( similarities and differences ) plant and animal cells.	
				Explains the functions of the cell wall, cell membrane, cytoplasm, nucleus, vacuole, mitochondria and chloroplasts.	
				Identifies the role of diffusion in the movement of materials in and between cells.	
<b>February 2017</b>					
Week 24	2	3.9	Specialized cells	Describes the structure of cells to their functions.	
Week 25	2	3.10	Nerves	Identifies the structure of nerve cells and sensory cells to their functions. Describes how explanations develop as new evidence becomes available.	
		3.11	Tissues and organs	Learns that cells work together to form tissues, organs, and whole organisms.	
Week 26	2	4.1	Habitats	Monthly Test	
				Describes how organisms are adapted to their habitat.	
<b>March 2017</b>					
Week 27	2	4.2	Food chains	Draws simple food chains and link them to form a web.	
Week 28	2	4.3	Feeding ourselves	Discusses the positive and negative effects humans have on food chain.	
Week 29			Revision		
Week 30			Revision and 2nd term test		
<b>April 2017</b>					
Week 31			2nd Term End Exams		
Week 32			Report work		
Week 33			<b>April Vacation</b>		
<b>School Reopens - 3rd Term</b>					
Week 34	2	4.4	Changing the planet	Discusses the positive and negative effects humans have on air pollution and ozone depletion.	
Week 35	2	4.5	Preventing extinction	Learns how we can conserve endangered plants and animals.	

CLASS : YEAR 7		SUBJECT: Science ( Biology )		TEACHER : Shermila Liyakath	
Month	No. of Periods	Unit No.	TOPIC / DETAILS	Intended Learning Objectives	Remarks
<b>May 2017</b>					
Week 36	2	4.6	Obtaining energy	Recognizes a variety of sources of energy.	
				Distinguishes between renewable and non-renewable energy sources.	
Week 37	2	4.7	Growing fuels	Recognizes some sources of renewable fuels.	
				Recognizes that each biofuel has advantages and disadvantages.	
Week 38	2	5.1	Variation	Investigates the variation between individuals.	
				Monthly Test	
		5.2	Causes of variation	Identifies why individuals are different.	
Week 39	2	5.3	Species	Describes what is meant by a species.	
Week 40	2	5.4	Classification	Learns what classification involves and classify invertebrates into their major groups.	
<b>June 2017</b>					
Week 41	2	5.5	Vertebrates	Classifies vertebrates into their major groups.	
		5.6	Classification of plants	Classifies plants into their major groups.	
Week 42	2		Revision		
Week 43				3rd Term end exams	
Week 44				Report work	
				Summer Vacation	