INTEGRATED SCIENCE YEAR PLAN

Form 2

August 2019- June 2020

TERM-1

Week	Topic/Sub-topic	Objective	Learning activity	Assessment
1	Mixtures	To understand the common	Students will identify	
		properties of mixtures	useful mixtures in nature	
			and those that are found	
		To outline the difference	around the home	
		between a homogenous and an		
		heterogeneous mixture	Students will give	
			examples of	
			heterogeneous and	
			homogeneous mixtures	
			that they are familiar with	
2-3	Suspensions, and	To understand the difference	Students will be presented	Quiz
	colloids	between solutions,	with different types of	
		suspensions and colloids	mixtures and they will use	
		To understand the distinct	knowledge of the colloids	
		nature and properties of	and suspension to	
		suspensions and colloids	determine the difference	
		To understand the uses of		
		suspensions and colloids		
4	Techniques used to	To outline the various	Laboratory exercise	Graded Lab
	separate mixtures	separation techniques that can		report
		be used to separate mixtures		
				Paper pen test
5	Solution and	To describe the nature of	Students will identify	
	Solubility	solutions	solute and solvent that can	
		To distinguish between solute,	be used to make different	
		solvent and a solution	types of solutions	Graded. Lab

				report
		To understand what is meant by dilute solution, concentrated solution and saturated solution. To identify the factors that affect solubility of a solute in a solvent	Students will dissolve varied portions of solutes in a fixed amount of solvent (water) to demonstrate dilute, concentrated and saturated solutions Laboratory exercise to investigate how the solubility of a solute is affected by the nature of solvent	
6-7	Solutions in our	To identify solutions that are	Conduct simple pH test to	Paper pen test
	daily life	common in homes and the	determine the acidity and	
		laboratory	alkalinity of a some	Students will
			household products and	make their
		To distinguish between acid	laboratory chemicals	personalized
		and base (alkali) on their		pH scale
		properties		using
				appropriate
				materials and
0.10	XXX	T 1 4 1 1 4 4	C. 1	colours
8-10	Water – An	To understand that water	Students will perform	
	important Solvent	dissolves many substances	simple water treatment	D
	atom of a		procedures in the	Project
	*Treatment of	To outline the processes	laboratory by using the	(Water
	water	involved in water treatment	following techniques:	pollution and
			Filtering, disinfectant	its effect on
	Water	To understand the importance	using a common	living
	consumption and	of water conservation	household chemical	organisms)
	conservation		(bleach) and boil	
	Water Pollution	To identify the common		
		sources of water pollution		
		To describe methods of water		

		pollution control		
11-12	From Cells to	To relate a cell's structure to	Students will identify	Quiz
	Tissues – organs-	its function	unmarked organs found in	
	system-organism	To differentiate between cell,	humans and plans	
		tissue, organ and system		
		To understand multicellular		
		organisms have several		
		different types of tissues that		
		make up an organ and several		
		organs and several organs can		
		be organized into systems		
13	The sensory	To describe the function of		
	organs	our sensory organs		
14	EXAM			
	REVISION			

TERM-2+3

Week	Topic/Sub-topic	Objective	Learning activity	Assessment
1-2	The Nervous,	To describe the functions of		
	Muscular and	the nervous, muscular and		
	Skeletal System	skeletal systems		
3-4	Food- Our Source	To understand that food is a		Test
	of Energy	source of energy for living		
	*Nutrients in food	things and it also stimulates		
	*Energy Value of	growth and maintains life.		
	Food			
	*A Balanced Diet	To investigate nutrients in		
		food		
		To identify sources from		
		which people from various	Laboratory exercise to	Graded lab
		societies obtain nutrients	determine the nutrients	report
			present in different food	
			samples	
				Project
				Prepare and
				present meals
				based on an
				individual's
				need
5 - 6	Food- To Make or	To describe the process by	Laboratory exercise. Test	
	To Break	which green plants make their	green leaf for starch	
		food.		
7	Life processes;	To understand the importance		
	Respiration and	of respiration in living		
		organisms		
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8 - 9	Digestion	To understand why food must		Test
		be digested		
			Label a blank diagram of	
			the human digestive	
		To relate the structure and	system	
	The Human	function of the digestive		
	digestive system	system		
	argestive system	System		
			To observe the movement	
	Transport Systems	To understand why	of water up a stem	
		multicellular organisms need a		
		transport system		
		To distinguish between the		
		transport system in plants and		
		animals		
10	Excretion	To define and explain the		Test
		importance of Excretion		
		To distinguish between		
		Excretion and Egestion		
11-13	Reproduction	To understand that the human	Group presentations on	In-Class
	*Sexual	body has the potential to	each person experiences	presentation
		replicate itself		presentation
	Reproduction and	replicate fisch	during puberty	
	Puberty			

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	To describe the physical
* The human	changes that occur during
Reproductive	puberty
System	
	To understand the process of
*Heredity	heredity
*Birth Contro	To discuss the temporary and
	permanent methods of birth
* Pre-Marital	sex Control
and Abortion	To discuss the consequences
	and issues relating to abortion
*STDs	and Pre-marital sex
	To Outline the harmful
	consequences of sexually
	Transmitted Diseases