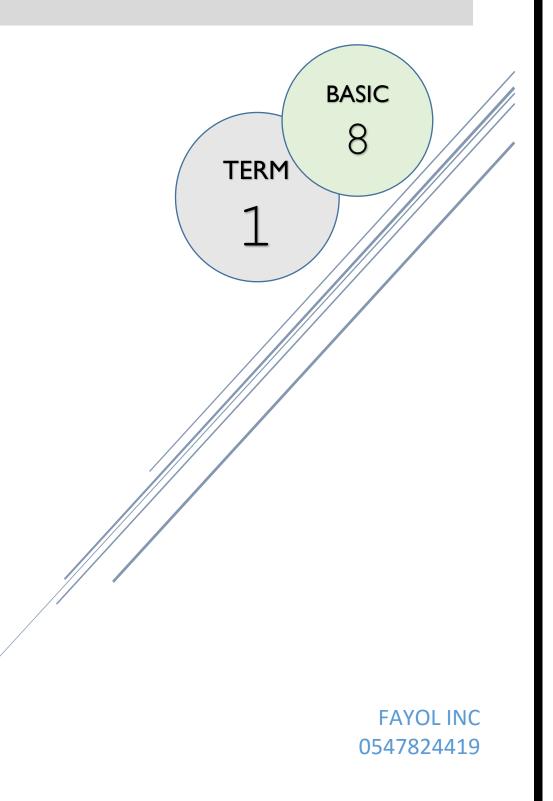
LESSON PLANS FOR JUNIOR HIGH SCHOOLS

SCIENCE



TERM I SCHEME OF LEARNING

WEEKS	STRAND	SUB STRAND	INDICATORS	RESOURCES			
I	Diversity Of	Mixtures	B8.1.1.1.1	Powder, pebbles, bottle tops			
2	Matter	Separation Of Mixtures	B8.1.1.1.2	salt, sugar, sand			
3		The Carbon Cycle	B8.2.1.1.1-2	Pictures and charts			
4	Cycles	Life Cycle Of The Anopheles Mosquito	B8.2.2.1.1-2	Pictures and charts			
5	Systems	Mammalian Tooth	B8.3.1.1.1-2	Pictures and charts			
6	Systems	Tooth And Gum Decay.	B8.3.1.1.3	Pictures and charts			
7		Energy Conversion	B8.4.1.1.1-2	Pictures and charts			
8	Forces & Energy	Renewable & Non- Renewable Energy	B8.4.1.2.1-2	Pictures and charts			
9		Heat And Temperature	B8.4.1.3.1	Pictures and charts			
10		Waste Management Practices	B8.5.1.1.1-2	Pictures and charts			
11	Humans & The	Communicable Diseases	B8. 5.2.1.1-2	Pictures and charts			
12	Environment	Bacterial Diseases	B8. 5.2.2.1	Pictures and charts			
13	REVISION						
14	EXAMINATION AND VACATION						

Week Ending:		DAY:		Subject: Science		
Duration: 100mins				Strand: Diversity Of Matter		r
Class: B8		Class Size:		Sub Strand: Mixtu	res	
Content Standard: B8.1.1.1. Demonstrate kno understanding of the proceseparating the components	esses of scientifi s of mixtures			8.1.1.1.1 Identify types of mixtures by		Lesson:
	Performance Indicator: Core Compete					
Learners can identify typ		s by name and cha	aracteristics	DL 5.3: CI 6.8: DL	5.1: CI 6	o.6:
References: Science Cur	rriculum Pg.					
Phase/Duration	Learners Acti	ivities			Resour	res
		earners on the pro	evious lesson.		rtesour	
	Share learning	g indicators and ir	ntroduce the lessor			
LEARNING	Identify classe liquid; liquid - Group mater sand, gari, gra solids and liquid. Put any two oresultant natu. Draw observe characteristic sand and grav. Compare and characteristic lidentify and sugar and salt solution, fruit properties Identify a suspendentify a suspendentification a suspendentification a suspendentification a suspendentification a suspendentification a suspendentification a susp	es of mixtures and liquid; solid – galials such as powdivel, oil, water and uids of the materials (ingre of the product able conclusions of the product able conclusions of the mixtures of the mixtures of the mixtures of the product able conclusions of the product able conclusions of the product of the product able conclusions of the product is and and water in a product of the	on homogeneous a of two or more ma r; oil and water and solvents based such as sand and s ations such as salt s ution based on the	lid – solid; Solid – - gas. tops, salt, sugar, main categories: describe the Ind heterogeneous sterials such as d on their physical ugar mixture, solution, sugar ir physical cture of and show the	bottle sugar,	r, pebbles, tops, salt, sand, gari, oil, water

PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

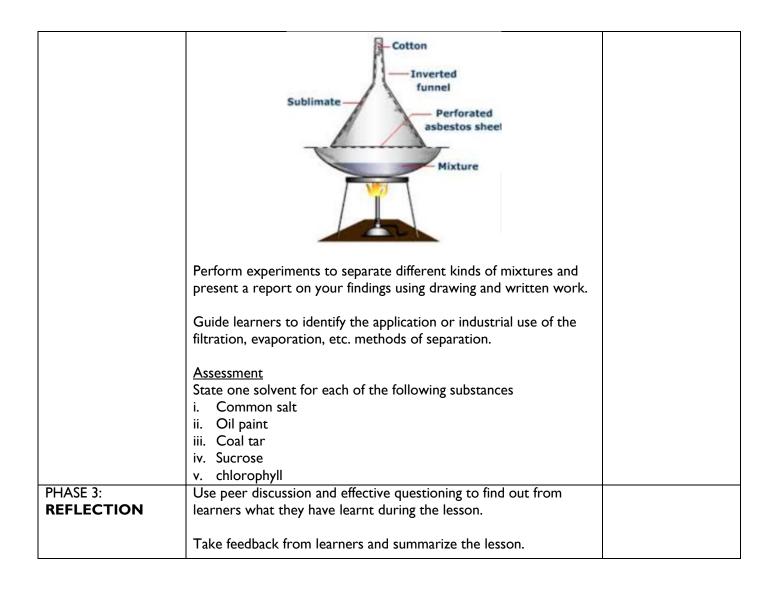
Week Ending:		DAY:		Subject: Science	
Duration: 100mins				Strand: Diversity Of Matter	
Class: B8		Class Size:		Sub Strand: Mixtures	
Content Standard: B8.1.1.1. Demonstrate understanding of the p separating the compo	processes of scientifi		Indicator: B8.1.1.1.1 Identify name and charact	types of mixtures by eristics	Lesson: 2 of 2
Performance Indica Learners can identify		s by name and cha	aracteristics	Core Competencie DL 5.3: Cl 6.8: DL 5.1	
References: Science	Curriculum Pg.				
Phase/Duration PHASE I: STARTER		ies ners on the previo			Resources
PHASE 2: NEW LEARNING	Brainstorm to b solution. List some solver some common some common some common some common some compare and contaracteristics. Guide learners to Example: Weigh 5g of corn Stir for the salt to Discuss their observe and dismixture. Add some palm Shake vigorously Discuss their observe and dismixture. Add some palm Shake vigorously Discuss their observe and dismixture. Add some palm Shake vigorously Discuss their observe and dismixture. Assessment I. Define the folion. Solute ii. Solve	ring out the mean outs in the home are solutes and name ontrast solutes and more of mixed more salt and additional discovery to stand allow to stand accuss the difference of to water in a contract of the servation.	ning of the terms so and school and discustheir appropriate so discovents based or tures. If it to 250ml of was add it to 250ml of was between this and container. It and.	ss their uses. List olvents. their physical eer.	powder, pebbles, bottle tops, salt, sugar, sand, gari, gravel, oil, water
PHASE 3: REFLECTION	they have learnt of		estioning to find out for the state of the state of the lesson.	rom learners what	

Duration: 100mins							
Class. DO				Strand: Diversity Of Matter		Of Matte	r
Class: B8 Class Size: Sub Strand: Separ				Sub St	trand: Separa	tion Of	Mixtures
Content Standard: B8.1.1.1 Demonstrate knowledge of types of mixtures, and understanding of the processes of scientific ways of separating the components of mixtures Indicator: B8.1.1.1.2 Design and perform processes are processed in the processes of scientific ways of separating the components of mixtures.					•	sses	Lesson:
Performance Indicator: Learners can identify types of mixtures by name and characteristics Core Competer DL 5.3: Cl 6.8: D					•		.6:
References: Science Curr	riculum Pg.						
Phase/Duration L	Learners Acti	vities				Resour	ces
PHASE I: STARTER F	Revise with le	earners on the pre	evious lesson.				
9	Share learning	g indicators and ir	ntroduce the lessor	١.			
LEARNING S	Filtration, Sieve separating fund Filtration The process in ware removed by through but retailing groups, engusing the filtration The process by we soluble solid or soluble solid or soluble solid or solubing the evaporation The process by we soluble solid or soluble solu	which solid particles (in the use of a filter meaning the solid particles gage learners to seation method. Which water changes solute from its solven gage learners to seconation method.	to gas. This process is t. E.g. salt and water. eparate the mixture	used to e, salt a	n, Use of ng, etc. seous fluid pass and water separate a and water	bottle t sugar, s	r, pebbles, cops, salt, sand, gari, oil, water

	Guide learners to identify the application or industrial use of the filtration, evaporation, etc. methods of separation.
	Assessment Name the method which could be used to separate each of the following mixtures into their components i. Alcohol and water ii. Salt and water iii. Powered charcoal and iron filings iv. Powered chalk and water
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.

Week Ending:	DAY:		Subject: Science		
Duration: 100mins			Strand: Diversity Of Matter		
Class: B8		Sub Strand: Separation Of Mixtures			
Content Standard: B8.1.1.1. Demonstrate knowledge of types understanding of the processes of scientific separating the components of mixtures	Indicator: B8.1.1.1.2 Design for separating kin	and perform processes ods of mixtures.	Lesson:		
Performance Indicator: Learners can identify types of mixtures by name and characteristics			Core Competencies: DL 5.3: Cl 6.8: DL 5.1: Cl 6	.6:	

Learners can identify ty	pes of mixtures by name and characteristics	DL 5.3: CI 6.8: DL	5.1: CI 6.6:			
References: Science Curriculum Pg.						
DI /D			T 5			
Phase/Duration	Learners Activities	Resources				
PHASE I: STARTER	Revise with learners on the previous lesson.					
	Share learning indicators and introduce the lesson.					
PHASE 2: NEW LEARNING	Revise with learners on some methods for separation Filtration, Sieving, Evaporation, Magnetization, Distinguished Separating funnel, Sublimation, Crystallization, Win Distillation It is process of separating the components or substance mixture by using selective boiling and condensation, usuapparatus known as still. In groups, engage learners to separate the mixture, the simple distillation method.	illation, Use of nowing, etc. es from a liquid nally inside an	powder, pebbles, bottle tops, salt, sugar, sand, gari, gravel, oil, water			
	Distillation flask Salt water Cooling water out Cooling water in Heat Distillate (pure water)	nser				
	Sublimation This is used to separate substances that sublime from those substance that sublime is the one that changes directly from the gaseous state especially when heated without passing this state examples of such substance are iodine crystals, ammor camphor In groups, engage learners to separate the mixture, and sand using the sublimation method.	the solid sate to rough the liquid nium chloride and				



Week Ending:		DAY:		Subject: Science		
Duration: 100mins				Strand: Cycles		
Class: B8		Class Size:		Sub Strand: The Carbon Cycle		
Content Standard: B8.2.1.1 Demonstrate und Carbon cycle as an examp in nature and how it relate	ole of repeated p	attern of change	Indicator: B8.2.1.1.1 Explain the process of the carbon cycle.			Lesson:
Performance Indicator: Core Compete						
Learners can describe t	-	-		DL 5.3: CI 6.8: DL	5.1: CI 6	5.6:
References: Science Cu	urriculum Pg. 5	7				
Phase/Duration	Learners Act	ivitios			Posour	200
PHASE I: STARTER		earners on the pro	evious lesson		Resour	ces
		ca. nero on one pr	2			
	Share learning	g indicators and ir	ntroduce the lesso	n.		
PHASE 2: NEW			lifferent forms of c	arbon that they	Picture	es and Charts
LEARNING	have encount	ered.				
	Revise with learners to define key terms such as photosynthesis and respiration.					
	Have learners atmosphere.	s discuss the role	of carbon dioxide	in the		
	Guide learners to explain the carbon cycle. The carbon cycle is the biological cycle by which carbon is exchanged among the biosphere, pedosphere, geosphere, and atmosphere of earth.					
	Let learners identify the carbon cycle from charts or pictures and write short notes on what happens at each stage. Stage 1: Carbon enters the atmosphere as CO2. Stage 2: CO2 is absorbed by autotrophs such as green plants. Stage 3: Animals consume plants, thereby, incorporating carbon into their system. Stage 4: Animals and Plants die, their bodies decompose and carbon is reabsorbed back into the atmosphere.					
	Produce a flo	w chart to trace 1	the process of the	carbon cycle in		

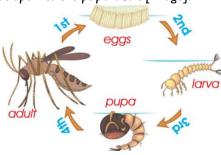
	Carbon Cycle Sunlight CO2 in the atmosphere Photosynthesis by producers Plant respiration Animal respiration by consumers Decomposition Fossils and fossil fuels	
	Explain the process of the carbon cycle depicting processes such as a) Photosynthesis b) Respiration c) Burning d) Decay	
	Have learners compile information on the carbon cycle and give reasons why it is a repeated pattern e.g. it is because the carbon is circulated continuously in the environment	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending:		DAY:		Subject: Science		
Duration: 100mins				Strand: Cycles		
Class: B8		Class Size:	Sub Strand: The Carbon Cyc			Cycle
Content Standard: B8.2.1.1 Demonstrate understanding of the process of Carbon cycle as an example of repeated pattern of change in nature and how it relates to the environment Indicator: B8.2.1.1.1 Explain the process of carbon cycle.				the process of the	2	Lesson:
Performance Indicator: Core Compet						
Learners can describe	•	•		DL 5.3: CI 6.8: DL	- 5.1: Cl 6	5.6:
References: Science C	urriculum Pg. 5	7				
Phase/Duration	L sampana A st	iviti on			Daggu	
PHASE I: STARTER	Learners Act	earners on the pr	evious lesson		Resour	ces
		·		1.		
PHASE 2: NEW LEARNING	Share learning indicators and introduce the lesson. Brainstorm learners to name different forms of carbon that they have encountered. Revise with learners to define key terms such as photosynthesis and respiration. Have learners discuss the role of carbon dioxide in the atmosphere. Guide learners to explain the carbon cycle. The carbon cycle is the biological cycle by which carbon is exchanged among the biosphere, pedosphere, geosphere, and atmosphere of earth. Let learners identify the carbon cycle from charts or pictures and write short notes on what happens at each stage. Stage 1: Carbon enters the atmosphere as CO2. Stage 2: CO2 is absorbed by autotrophs such as green plants. Stage 3: Animals consume plants, thereby, incorporating carbon into their system. Stage 4: Animals and Plants die, their bodies decompose and carbon is reabsorbed back into the atmosphere.					es and Charts

	Carbon Cycle Sunlight CO2 in the atmosphere Photosynthesis by producers Plant respiration Animal respiration by consumers Decomposition Fossils and fossil fuels	
	Explain the process of the carbon cycle depicting processes such as a) Photosynthesis b) Respiration c) Burning d) Decay	
	Have learners compile information on the carbon cycle and give reasons why it is a repeated pattern e.g. it is because the carbon is circulated continuously in the environment	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending:		DAY:		Subject: Science		
Duration: 100mins				Strand: Cycles		
Class: B8		Class Size:		Sub Strand: Life Cycle Of The Anopheles Mosquito		
Content Standard: B8.2.2.1 Demonstrate an activity to show the life cycle of the Anopheles mosquito and show how the effects of the mosquito on humans can be managed Indicator: B8.2.2.1.1 Describe the life cycle of economic importance of the mosquito						Lesson:
	Performance Indicator: Learners can describe the life cycle and economic importance of the Anopheles mosquito Core Competend DL 5.3: CI 6.8: DL					5.6:
References: Science Cu	ırriculum Pg. 5	9				
Phase/Duration PHASE I: STARTER	Learners Act Revise with le	ivities earners on the pro	evious lesson.		Resou	rces
	Ask learners why they disl	to mention some ike them.	common insects in			
PHASE 2: NEW LEARNING	Explain to learnot bite humanopheles more information of Example: The	tify the names of as relate to these inful. Examples to describe is a parasite that be a parasite that be a ponds bushy, and the ans nor transmit a posquito does. The female anopheles is related to the female anopheles in the female anopheles.	nsects and tell which the a mosquito. Treeds in stagnant we deven in surrounding the surrounding the species of any kind of a disease the on the internet	ch are harmful ater bodies like; gs mosquitoes do e, but the female to find more or/carrier of	Picture	es and Charts
			t stages of the life eeding the mosquit			

- I. The adult female anopheles mosquito adult lays eggs onto the surface of a stagnant water body.
- 2. The eggs hatch into larvae in eggs 2-5 days after they are laid.
- 3. The larvae grows to become the larvae pupa.
- 4. The pupa develops into the pupa adult [imago].



Guide learners to describe the economic importance of the Anopheles mosquito.

Example:

- 1. Mosquitoes visit flowers for nectar and in the process cause pollination of the flowers of such plants
- 2. Mosquitoes help to preserve fossil when their larvae feed on microorganisms such as algae and microbes that speed the decay of organic matter.
- 3. Mosquito larvae aquatic food chain by serving as food sources for many predators like fish and birds.

Assessment

- Describe the stages in the life cycle of a mosquito
- State three economic importance of the Anopheles mosquito

PHASE 3: REFLECTION

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Week Ending:		DAY:		Subject: Scien	ce			
Duration: 100mins		-		Strand: Cycles	S			
Class: B8		Class Size:		Sub Strand: Life Cycle Of The Anopheles Mosquito				
the Anopheles mosquito a mosquito on humans can	ontent Standard: 3.2.2.1 Demonstrate an activity to show the life cycle of e Anopheles mosquito and show how the effects of the osquito on humans can be managed Indicator: B8.2.2.1. 2 Discuss the impact of the Anopheles mosquito on humans and can be controlled						Lesson:	
Performance Indicator Learners can discuss the can be controlled	uss the impact of the Anopheles mosquito on humans and how it						encies: DL 5.1: Cl 6.6:	
References: Science Cu	urriculum Pg. 5	9			1			
Phase/Duration	Learners Act					Resour	ces	
PHASE I: STARTER		earners on the progression of th		esson.				
PHASE 2: NEW LEARNING	Give learners their findings Example: I. Mosquitoe Brainstorm le the envir the chem the biolo The gene Guide learne malaria in Gh I. The enviro of chocked weeding/co of the fen The chemicals the various The biolog mosquito eating fish mosquito and thus of the genet The genet	in groups of four. cuss the impact of smodium on human is enough time for to the whole class es cause various dearners to mention onmental control method in control method. It to discuss each in the standard method of gutters [stagnant is stages of their dearing of bushes in the stages of their dearing in the stages of the stages of their dearing in the stages of the st	this activity. He is for discussional seases in human some method, and of the method of mosquito confustanding water of order to destroy to destroy the use of the its population. If Guppies could be don't he breeding [p	lave them present. In ans and other and the and	nimals nimals alaria. draining rounds se of during quito ro	Picture	es and Charts	

	mosquitoes into the environment [surroundings]. When the sterile male mosquitoes mate with the fertile female mosquitoes, there are no eggs laid.
	Have learners role play to generate solutions to control malaria in Ghana.
	Assessment I. State and explain the methods to control malaria in Ghana. 2. Write two advantages and two disadvantages each for the following; I. the environmental control method, II. the chemical control method III. the biological control method IV. The genetic method
PHASE 3:	Use peer discussion and effective questioning to find out from
REFLECTION	learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Week Ending:	DAY: Subject: Science						
Duration: 100mins				S	strand: Systems		
Class: B8		Class Size:		S	iub Strand: Mamr	nalian To	ooth
B8. 3.1.1 Demonstrate knot tooth and the functions of relation to feeding in man	the different ty		Indicator: B8.3.1.1.1 Identify tooth	У Г	parts of a mamma	lian	Lesson:
Performance Indicator		- l'			Core Competer		
Learners can identify pa References: Science Cu					DL 5.3: CI 6.8: DL	. 5.1: CI 6	.6:
References: Science Cu	irriculum rg. 3	,					
Phase/Duration	Learners Act	ivities				Resour	ces
PHASE I: STARTER	Ask learners why they disl	ike them.	evious lesson. common insects in		their home and		
PHASE 2: NEW LEARNING	Dentition ref the teeth mo Have learners mainly suited Guide learner Homodont d Learners talk [wisdom] tee Guide learners In groups, lea • The crow above the	uth of an animal s understand that [adapted] to the rs to discuss the tentition and Hete about the milk [c th. rs to draw and lab Crown Neck Root Root arners discuss the yn is the part of the gum ne part of the too	the type of dentiti animal's mode of f	ior fee in i ma ma	n in an animal is eding. mammals. the permanent alian tooth. cown found	ricture	es and Charts
	•	e region [part] of	f the tooth neck w	he	ere the crown		

	Guide learners to explain the functions of each part of the
	mammalian tooth of humans.
	The enamel is the outermost layer of the enamel tooth which forms
	the biting surface of the crown. It is the most hardest material in the human body.
	The dentine is the layer of the tooth which is found beneath the enamel. It forms a greater part of the tooth.
	The pulp cavity is a region within the tooth where the blood vessels are found.
	The gum is the flesh that holds the crown and the root together.
	• The jaw bone contains the sockets that serve as a basement for the tooth.
	The cement is the adhesive substance that holds the tooth firmly in
	the jawbone and also to the periodontal fibers and membranes
	Assessment
	Draw a well labelled mammalian tooth.
	State and explain the types of dentition with examples.
	What is dentition?
PHASE 3:	Use peer discussion and effective questioning to find out from
REFLECTION	learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Week Ending:	DAY: Subject: Science					
Duration: 100mins				Strand: Systems		
Class: B8		Class Size:		Sub Strand: Mamr	nalian To	ooth
	B.1.1 Demonstrate knowledge of parts of mammalian h and the functions of the different types of teeth in different types of teeth such as incisc					Lesson:
Performance Indicator		1 1.00		Core Competer		
Learners can discuss the			of teeth	DL 5.3: CI 6.8: DL	5.1: CI 6	5.6:
References: Science Cu	irriculum Fg. 5	7				
Phase/Duration	Learners Acti	ivities			Resour	rces
PHASE I: STARTER	Ask learners why they disl	ike them.	evious lesson. common insects in			
PHASE 2: NEW LEARNING PHASE 3: REFLECTION	Types of teet Incisors- cutting for Canines- for shear Molars ar tiny proje grinding f Engage learne Assessment State one fun I) Incisors Use peer disc learners what	the incisors are to bod. The canines are coing flesh from borned Premolars- the ections on them cood. The canines are coing flesh from borned Premolars- the ections on them cood. The canine of the ection of each of the cood. Conline of each of the ection of each of the cood of the ection of each of ection o	y have broad surfa alled cups. They ar fferent types of tee	and are used for ape and are used ces with some re used for eth.	Picture	es and Charts

Week Ending:	DAY: Subject: Science			Subject: Science				
Duration: 100mins				S	Strand: Systems			
Class: B8		Class Size:		S	Sub Strand: Tooth	And Gu	ım Decay	
Content Standard: B8. 3.1.1 Demonstrate knowledge of parts of mammalian tooth and the functions of the different types of teeth in relation to feeding in man Indicator: B8.3.1.1.3 Explain the causes and prevention of tooth and gum decay.				Lesson:				
Performance Indicator		rovention of tooth	and gum docay		Core Competen DL 5.3: Cl 6.8: DL		۷٠	
References: Science Cu	-		Tand guin decay		DE 3.3. CI 0.0. DE	J.1. CI 0.	.0.	
Phase/Duration	Learners Acti	ivities				Resour	ces	
PHASE I: STARTER	Revise with le	earners on the pro	evious lesson.					
	Share learning	g indicators and ir	ntroduce the lesso	n.				
PHASE 2: NEW LEARNING	Brainstorm le Write learner Drill learners keywords in a There are man among them in Guide learner and formation decay. I. Dental cari Tooth decay of teeth. This is a some bacteria time. 2. Plague It consists of a on the teeth w	earners to mention rs ideas on the boars ideas on the boars ideas on the boars ideas on the lesson. In the lesson includes; tooth decars to describe the interpretation of plaque and the less [tooth decay] of the less ideas is the less ideas in sugary foods the sticky film layer decay is the layer decay in the layer decay is the layer decay is the layer decay in the layer decay in the layer decay is the layer decay in the layer	n some disease of pard and discuss we bronunciation and in affect the teeth, buy, plaque and gum acauses of tooth due proper way of public are created in a at are left on the end with saliva by the end with saliva by the	the dilectores	the teeth. In them. The caning of the The common is ease Tay, gum diseases eventing tooth The enamel of the full of the action of mel for a long The control of the control of the control of the action of the control	Pictures and Charts		
	Gum disease is causes the gur to also bleed for Periodontal distit is not treated. Guide learner treated or pr	al [gum] disease s an advanced form m to be inflamed; i. Trequently. sease may also lead d.	n of plaque occurs ve. to feel painful what to bad breath and each of the tooth	ner 'th	n it is touched and ne loss of teeth if			

- 1. The affected tooth can be removed in order to prevent the infection from spreading.
- 2. The cavities that have been created within the tooth can either be removed or filled.

Treatment of Plague

Plague can easily be removed by the proper brushing of the teeth using a good tooth paste and brush.

Treatment of Gum disease

- 1. The teeth should be brushed properly in order to prevent the accumulation of bacteria or plaque.
- 2. The teeth should be brushed at least twice daily.

<u>Assessment</u>

The diagrams below are illustrations of the different types of teeth in humans. Study them carefully and use them to answer the questions that follow.



- i. Identify each type of teeth labeled A, B and C.
- ii. Describe the shape of each of the teeth labeled A, B and C.
- iii. State one function of each of the teeth labeled A, B and C.
- iv. Name the parts of the teeth labeled I and II

PHASE 3: REFLECTION

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Week Ending:		DAY:		Subject: Science		
Duration: 100mins				Strand: Systems		
Class: B8		Class Size:		Sub Strand: Tooth	And G	ium Decay
B8. 3.1.1 Demonstrate I tooth and the functions relation to feeding in ma	of the different		Indicator: B8.3.1.1.3 Explai of tooth and gun	n the causes and preven	ntion	Lesson: 2 of 2
Performance Indicat	or:	cies:				
Learners can explain t		-	th and gum decay	DL 5.3: CI 6.8: DL	5.1: CI	6.6:
References: Science (urriculum Pg.	59				
Phase/Duration	Learners Act	ivitios			Reso	urcos
PHASE I:		earners on the pr	evious lesson		reso	ui ces
STARTER	TREVISE WIGHT	carriers on the pr	evious lesson.			
	Share learning	g indicators and i	ntroduce the lesso	n.		
PHASE 2: NEW LEARNING	1. Brush in the decay 2. Avoid 3. Avoid 4. Chan 5. Freque sugar 6. Avoid etc. 7. Visit a	ryour teeth at least to evening, in order to y. I eating too much so to eating either too high ge your toothbrush wently chew tough so to the dentist regularly chew tough the dentist regularly chew to the front	t two [2] times daily to remove plaque who was to too cold foods at least once every ubstances like bones rengthen the teeth ects like pins, needled, at least twice a ye treatment.	three months s and fibers like s, knife, broom, sticks,	Pictui	res and ts



Place the brush at a 45° angel to the front tooth surface. Bristles must contact both lines of tooth and gum.



Move the brush in a small, jiggling, circular motion.

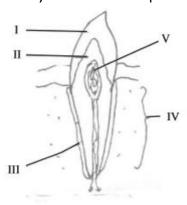


Clean the inside surfaces of the back teeth by moving the brush in a small back and forth motion.

Assessment

The diagram below is an illustration of a longitudinal section of a canine tooth in humans

Study the diagram carefully and answer the questions that follow



- I. Name each of the parts labeled I, II, III, IV and V.
- ii. What is the function of each of the parts labeled I and III?
- iii. Which of the labeled parts could be affected by tooth decay?
- iv. State three ways by which tooth decay may be prevented.

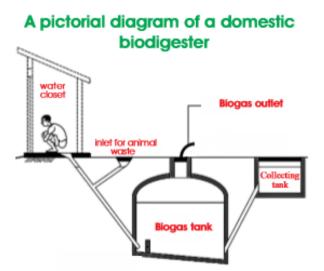
PHASE 3: REFLECTION

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Week Ending:	DAY: Subject: Science						
Duration: 100mins				Strand: Forces & E	nergy		
Class: B8		Class Size:		Sub Strand: Energ	y Conve	ersion	
Content Standard: B8.4.1.1 Demonstrate the of energy from one form	to another	the conversion	Indicator: B8.4.1.1.1 Descr	ibe energy conversio		Lesson:	
Performance Indicator Learners can describe e		ion		DL 5.3: CI 6.8: DL		5.6:	
References: Science Cu							
Phase/Duration	Learners Act				Resou	rces	
PHASE I: STARTER	Revise with le	earners on the pro	evious lesson.				
	Share learning	g indicators and ir	ntroduce the lesso	n.			
PHASE 2: NEW			nat energy is need	ed to be able to	Picture	es and Charts	
LEARNING		ious kinds of wor					
	Every type of used to do.	energy has a part	cicular form of wo	rk that it can be			
		need to sometime	es change one forn	n of energy into			
			to perform partic				
		6					
			eaning of energy co	onversion. es into another form			
	•	nown as energy con		s into another form			
	.	.1. 1					
			v of conservation of states that energy				
	-		an only be changed.				
			•				
		•	ortance of energy of less useful energy f				
		ilable but a more u		omi to be changed			
	6 : 1 1			. 16			
	form to anot		w energy is conver	ted from one			
			a. (w/)				
			producing lig				
			from a dryce	HI I			
	electrical ene	orgy →	(A+)				
	sound energy	,					
			hemical energy ight energy.	→			
	Assessment		5				

	 What is energy conversion? State and explain the law of conservation of energy. Describe three ways how energy is converted from one form to another 	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.	

Week Ending:		DAY:		Subject: Science				
Duration: 100mins		1		S	trand: Forces & E	nergy		
Class: B8		Class Size:		S	ub Strand: Energ	gy Conversion		
Content Standard: B8.4.1.1 Demonstrate the of energy from one form		the conversion	Indicator: B8.4.1.1.2 Discuss conversion of ener		•		Lesson: 2 of 2	
Performance Indicator Learners can discuss th		of conversion of	energy		Core Competer DL 5.3: Cl 6.8: DL		5.6·	
References: Science Cu	•							
Phase/Duration	Learners Act					Resour	rces	
PHASE I: STARTER	Revise with I	earners on the p	previous lesson.					
	Share learnin	g indicators and	introduce the lesson	n.				
PHASE 2: NEW	Have learner	s understand tha	at the more available	e b	out less useful	Picture	es and Charts	
LEARNING		•	ained from renewabl					
		able but more us newable sources	seful energy forms a	re	also obtained			
	energy. a. Renewable Renewable so inexhaustible continuous use	Sources Of Energy resident of energy resident of energy resident of energy resident.	newable and non-renergy Ifers to all those energot get depleted with tile Trices of energy include	gy : ime	sources that are e as a result of			
		energy from the s noving water, etc.	ea, wind energy from	m	oving air, hydro			
	Non - renewa	le in supply or car	Of Energy ergy refers to all those n get finished with tim					
	Examples of non - renewable sources of energy includes; chemical energy from firewood [charcoal], nuclear energy from radioactive substances, chemical energy from natural gas or crude oil like petrol, biogas from decaying organic waste, etc.							
	waste goes the The biogas d	hrough to produ i <u>gester</u> gester is a device/	e processes that a place biogas. machine that turns bio					

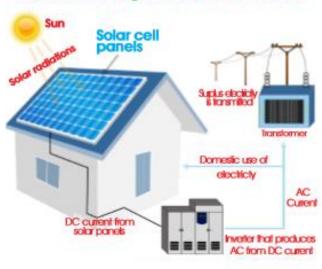


Guide learners to explain the processes that a solar heater goes through to produce electricity.

The solar heater

The solar heater is a device that converts solar energy which is obtained from the sun into other energy forms like electricity or heat for various domestic purposes.

A pictorial diagram of a solar heater



Guide learners to describe how to harness natural forms of energy into other forms.

Assessment

Explain the processes that a dammed river goes through to produce electricity.

PHASE 3: REFLECTION

Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.

Week Ending:	Week Ending: DAY:			Subject: Science				
Duration: 100mins				Strand: Forces & Energy				
Class: B8 Class Size:			Sub Ener	Strand: Renewab	le & Nor	n-Renewable		
Content Standard: B8.4.1.2 Show an understanding of the sources of renewable energy and how to manage these sources in a sustainable manner Indicator: B8.4.1.2.1 Descriptions				e renewable and n of energy	ion-	Lesson:		
Performance Indicator Learners can describe r		non-renewable fo	rms of energy		Core Competer DL 5.3: Cl 6.8: DL		o.6:	
References: Science Cu	ırriculum Pg. 7	0						
Phase/Duration PHASE 1: STARTER PHASE 2: NEW LEARNING	Learners Activities Revise with learners on the previous lesson. Share learning indicators and introduce the lesson. Brainstorm learners to explain renewable and non-renewable sources of energy. Guide learners to identify the various sources of renewable and non-renewable forms of energy and classify them e.g. wind, coal,				Picture	es and Charts		
PHASE 3: REFLECTION	hydro, crude oil, natural gas, solar and biogas. Describe how to produce energy from a renewable source. Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.							

Week Ending:		DAY:		Subject: Science			
Duration: 100mins			Strand: Forces & Energy				
Class: B8		Class Size:		Sub Strand: Renewable & Non- Renewable Energy			Non-
Content Standard: B8.4.1.2 Show an understarenewable energy and how sustainable manner		Indicator: B8.4.1.2.2 Demonstrate how to manage sources of renewable energy sustainably			Lesson: 2 of 2		
I Darners can demonstrate now to manage sollress of renewanie energy			Core Competer DL 5.3: Cl 6.8: DL				
References: Science Curriculum Pg. 70							
Phase/Duration	Learners Activities			Resources			
PHASE I: STARTER	Revise with learners on the previous lesson. Share learning indicators and introduce the lesson.						
PHASE 2: NEW LEARNING	Research about information on the stages involved in managing renewable energy sources					s and Charts	
	Create a table to describe challenges associated with the management of different sources of renewable energy						
PHASE 3:			ctive questioning to		nd out from		·
REFLECTION	learners what	learners what they have learnt during the lesson.					
	Take feedback from learners and summarize the lesson.						

Week Ending:	DAY: Subject: Science						
Duration: 100mins				Stra	and: Forces & Ene	rgy	
Class: B8		Class Size:		Sub	Strand: Heat And	d Temper	rature
Content Standard: B8.4.1.3 Demonstrate a relationship between he	eat and temper			etwe	the differences an en heat and temper		
Performance Indicator Learners can describe t and temperature		and the relationsh	nip between he	at	Core Competer DL 5.3: Cl 6.8: DL		.6:
References: Science Cu	ırriculum Pg. 7	I					
Phase/Duration	Learners Act	ivities				Resour	
PHASE I: STARTER		earners on the pro	evious lesson.			Resour	ces
	Share learning	g indicators and ir	ntroduce the le	esson.			
PHASE 2: NEW LEARNING	Temperature is substance Heat is a form due to a differ Create a table and heat. I. Definition coldness of transferre temperature. Units: Ten (°C) or Fa or calories. Transfer: another we hand, alway. Sensation: thermome inferred fr. Dependent energy of the temper. Effect: Ter such as its hand, can as well as	nperature is typicall threnheit (°F), while is (cal). Temperature can be then the two object tys flows from a host Temperature can be ter, while heat is not changes in temperature did the particles in a substrature and the amongerature affects the volume, density, and change the temperature are change the temperature affects the volume, density, and change the temperature are change the change the temperature are change the ch	ransferred from re. tinguishing feat measure of the ce heat is a form of another due to be heat is measured in use heat is measured from the transferred from the transferred from the same in contact. It is measured by tou ot directly sense perature or other pends only on the contact of substance, while he will be physical proper and state of matter and physical proper acture actur	degrees of energy and in under the average of each or	coldness of a cody to another of temperature of hotness or orgy that is erence in f degrees Celsius inits of joules (J) e object to on the other object. with a crather it is esical effects. erage kinetic epends on both of a substance, at, on the other e of a substance,	Picture	s and Charts

	Temperature is a measure of the average kinetic energy of the particles in a substance, while heat is a form of energy that is transferred from one body to another due to a difference in temperature. When two objects of different temperatures are brought into contact, heat will flow from the hotter object to the cooler object until they reach thermal equilibrium and have the same temperature.	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending:		DAY:	AY: Subject: Science			
Duration: 100mins				Strand: Forces & E		
Class: B8 Class Size: Sub S			Sub Strand: Electr	ub Strand: Electricity And Electronics		
Content Standard: B8.4.2.1 Demonstrate k transmission	Indicator: B8.4.2.1.1 Explain h transmission occurs	·				
Performance Indicator		ransmission is as	norated	Core Competer		4.
Learners can explain how electricity transmission is generated DL 5.3: Cl 6.8: DL 5.1: Cl 6.6: References: Science Curriculum Pg. 72						
References: Science Co	irriculum 1 g. 7					
Phase/Duration	Learners Act	ivities			Resour	rces
PHASE I: STARTER	Revise with le	earners on the p	revious lesson.			
PHASE 2: NEW LEARNING	Share learning indicators and introduce the lesson. Brainstorm learners to identify different stages of electricity transmission 1. Generation: This is the process of producing electrical energy in power plants, either through burning fossil fuels, using nuclear reactions, or harnessing renewable energy sources like solar, wind, or hydroelectric power. 2. Step-up transformation: The electrical energy produced by power plants is typically at a low voltage level. To minimize energy losses during transmission, the voltage is stepped up using transformers, which increase the voltage to several hundred kilovolts or even megavolts. 3. Transmission: The high-voltage electricity is then transported over long distances via overhead power lines or underground cables. The transmission lines are designed to minimize energy losses due to resistance and other factors. 4. Step-down transformation: Once the electricity reaches its destination, it is stepped down using transformers to a lower voltage suitable for distribution to homes, businesses, and other consumers. 5. Distribution: The final stage of electricity transmission involves distribution: The final stage of electricity transmission involves and transformers. The distribution system delivers electricity to local substations, which then distribute the electricity to homes and businesses in the surrounding area.					es and Charts
PHASE 3:	Use peer disc	cussion and effec	to the point of consu			
REFLECTION		•	and summarize the lesson.	esson.		

FIRST TERM WEEKLY LESSON NOTES WEEK 10

REVISION AND END OF TERM ASSESSMENT

Week Ending:		DAY: Subject: Science					
Duration: 100MINS		9		Strand: Strands for the term			
Class: B8	Class Size:	Class Size: Sub Strand: Sub stra		Strand: Sub stran	nds for the term		
Content Standard: Demonstrate knowledge and understanding in the topics treated so far. Indicator: Recall and summarize all what learnt within the term					Il what they have		
Performance Indicate Learners can recall and term		what they have le	arnt within the	:	Core Competer DL 5.3: Cl 6.8: DL		.6:
References: Science Cu	ırriculum Pg. 7	I					
Phase/Duration						T D	
PHASE I: STARTER	Learners Acti	earners on the pre	evious lesson.			Resour	ces
		g indicators and ir		sson.			
PHASE 2: NEW LEARNING	Temperature is substance Heat is a form due to a differ Create a table and heat. 7. Definition: coldness of transferretemperature. 8. Units: Ten (°C) or Fa or calories. 9. Transfer: another we hand, alwa. 10. Sensation: thermome inferred fr. 11. Dependententemper of the temper. 12. Effect: Ter such as its hand, can as well as	nperature is typicall hrenheit (°F), while is (cal). Temperature can be then the two object it is flows from a hot it is remperature can be ter, while heat is not com changes in temperature dethe particles in a surature and the amonperature affects the volume, density, archange the temperature and the change the temperature and the amonperature affects the volume, density, archange the temperature and the colume.	degree of hotner degree of hotner descriptions feat the assure of the content of another due to a measure of the another due to a measure of transferred from the areas of the	degree of ene a diffinits or di	coldness of a cody to another of temperature e of hotness or ergy that is erence in f degrees Celsius units of joules (J) e object to , on the other object. with a c rather it is esical effects. erage kinetic epends on both of a substance, at, on the other e of a substance,	Picture	es and Charts

	Temperature is a measure of the average kinetic energy of the particles in a substance, while heat is a form of energy that is transferred from one body to another due to a difference in temperature. When two objects of different temperatures are brought into contact, heat will flow from the hotter object to the cooler object until they reach thermal equilibrium and have the same temperature.	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.	

Week Ending: DAY:		DAY:	DAY:		Subject: Science			
Duration: 100MINS			Strand: Strands treated for the term					
Class: B8	Class: B8 Class Size:			Sub Strand: Sub strands for the term				
Content Standard: Demonstrate knowledge and understanding in the topics treated so far.			Indicator: Preparation towar	ds vacation		Lesson:		
Performance Indicator: Learners can answer all end of term assessment questions i exercise books.			cions in their	Core Competencies: DL 5.3: Cl 6.8: DL 5.1: Cl 6.6:				
References: Science Cu	ırriculum							
Phase/Duration	Loarnors Act							
PHASE I: STARTER	Learners Activities Ask learners to bring and display all the materials needed for					Resources Exercise books,		
	the assessment. Educate them on the consequences of examination mal practice.				pen, pencils, erasers, Answer sheets.			
PHASE 2: NEW LEARNING	Engage learners to arrange themselves properly to sit for the assessment test. Mark learners answer sheets or exercise books. Fill in learner's SBA books and report cards. Distribute learners answer sheets or exercise books for feedback.			Quest	Assessment cions and ise books.			