Week Ending:		DAY:		Subject: Science		
Duration:				Strand: Diversity Of Matter		r
Class: B8		Class Size:		Sub Strand: Mixtu	ures	
Content Standard: B8.1.1.1. Demonstrate known understanding of the processeparating the component	esses of scientifi		Indicator: B8.1.1.1.1 Identify name and charac	types of mixtures teristics	Lesson: 1 of 2	
Performance Indicator Learners can identify ty	rformance Indicator: Core Competen arners can identify types of mixtures by name and characteristics DL 5.3: CI 6.8: DL					.6:
References: Science Cur	rriculum Pg.					
Phase/Duration	Learners Acti	vities			Resou	rcos
PHASE 1: STARTER		earners on the pre	evious lesson.		Nesou	CC3
		·	ntroduce the lesson.			
PHASE 2: NEW LEARNING	Brainstorm to Identify classe liquid; liquid Group materis sand, gari, grasolids and lice Put any two or resultant nate Draw observations and and grave Compare and characteristic sand and salt solution, fruit properties Identify a sus groundnut page	es of mixtures and liquid; solid - gas als such as powde avel, oil, water arquids of the materials (incure of the products from mixtures ovel; sand and water contrast solutes a mixture and solute tipuice, vinegar so pension as a type aste and water in between a colloid fect.	the meaning of the tood give examples: So s; gas - liquid; gas - r, pebbles, bottle to and others into two restricted on homogeneous are of two or more mater; oil and water and solvents based such as sand and suitions such as salt so blution based on the of mixture e.g. mixture	erm mixture.  lid - solid; Solid - gas.  ops, salt, sugar, nain categories:  escribe the  d heterogeneous erials such as  on their physical  ugar mixture, olution, sugar ir physical  ture of	bottle sugar,	er, pebbles, tops, salt, sand, gari, oil, water

	State the types of mixtures and give an example in each case.	
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:				Strand: Diversity Of A	Matter	
Class: B8		Class Size:		Sub Strand: Mixtures		
Content Standard: B8.1.1.1. Demonstrate understanding of the p separating the compo	processes of scientiful onents of mixtures	s of mixtures, and	Indicator:	Lesson Lesson		
Performance Indica Learners can identify	y types of mixture	s by name and cha	aracteristics	Core Competencie DL 5.3: CI 6.8: DL 5.1		
References: Science	Curriculum Pg.					
Phase/Duration	Learners Activit	ios			Resources	
PHASE 1:		ners on the previo	ous lesson.		Resources	
STARTER		·				
DUACE 2 NEW		ndicators and intro				
PHASE 2: NEW LEARNING	solution.	ing out the mean	ing of the terms sol	ute, solvent and	powder, pebbles, bottle	
	List some solvents in the home and school and discuss their uses. List some common solutes and name their appropriate solvents.				tops, salt, sugar, sand, gari, gravel, oil, water	
	Compare and co		d solvents based on	their physical		
	Guide learners to prepare of mixtures. Example: Weigh 5g of common salt and add it to 250ml of water. Stir for the salt to dissolve. Discuss their observation.					
	Weigh 5g of powdered chalk and add it to 250ml of water. Stir vigorously and allow to stand. Observe and discuss the differences between this and the previous mixture.  Add some palm oil to water in a container. Shake vigorously and allow it to stand. Discuss their observation.					
		nt and iii. Solutior				
DILACE 2.		rners prepare nan		rom loornors what		
PHASE 3: REFLECTION	they have learnt o		estioning to find out f	roin learners what		
	Take feedback fro	om learners and sum	nmarize the lesson.			

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Week Ending:		DAY:		Subject: Science	Subject: Science			
Duration:				Strand: Diversity C	of Matte	r		
Class: B8		Class Size:		Sub Strand: Separa	ration Of Mixtures			
understanding of the proc separating the componer	B8.1.1.1. Demonstrate knowledge of types of mixtures, and understanding of the processes of scientific ways of separating the components of mixtures  Hidicator:  B8.1.1.1.2 Design and perform processes for separating kinds of mixtures.					Lesson: 1 of 2		
	Performance Indicator: Core Competer DL 5.3: CI 6.8: DI					.6:		
References: Science Cur	rriculum Pg.							
Phase/Duration	Learners Acti	vitios			Resou	rcos		
PHASE 1: STARTER		earners on the pre	evious lesson.		Resou	ices		
	Share learnin	g indicators and ir	ntroduce the lesson					
PHASE 2: NEW LEARNING	Filtration, Sie	ving, Evaporation,	methods for separ Magnetization, Disti Crystallization, Win	llation, Use of	bottle sugar, s	r, pebbles, tops, salt, sand, gari, oil, water		
	are removed by through but re In groups, eng							
	soluble solid or In groups, engusing the ev	which water changes solute from its solven gage learners to se aporation methor water and other particular and oth	to gas. This process is at. E.g. salt and water. eparate the mixture od.  Water Evaporating dish  Burnsen burner  atte different kinds of ags using drawing a	e, salt and water				
		•	application or indus ethods 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:				Strand: Diversity Of Matter		
Class: B8		Class Size:		Sub Strand: Separa	ation Of Mixtures	
understanding of the proc separating the componer	.1. Demonstrate knowledge of types of mixtures, and standing of the processes of scientific ways of ating the components of mixtures  Hidicator:  B8.1.1.1.2 Design and perform processes for separating kinds of mixtures.					Lesson: 1 of 2
Performance Indicator Learners can identify ty	•	s by name and cha	aracteristics	DL 5.3: CI 6.8: DL		.6:
References: Science Cu	rriculum Pg.					
Phase/Duration	Loarnors Acti	witios			Docou	rcos
PHASE 1: STARTER	Learners Acti	earners on the pre	evious lesson.		Resou	1662
	Share learnin	g indicators and in	ntroduce the lesson			
PHASE 2: NEW LEARNING	Revise with leading function, Siese separating function of the separating function of the separation of the simple of the simple of the simple of the simple of the substance that separation of the s	earners on some riving, Evaporation, nnel, Sublimation, fi separating the corng selective boiling own as still. gage learners to selistillation method is the separate substances the sublime is the one that the especially when he	methods for separat Magnetization, Distil Crystallization, Win mponents or substanc and condensation, us eparate the mixture	that do not. A the solid sate to prough the liquid	bottle sugar,	r, pebbles, tops, salt, sand, gari, oil, water

	T
	In groups, engage learners to separate the mixture, iodine crystals and sand using the sublimation method.
	and saile using the subtiliation method.
	Sublimate  Perforated asbestos sheel  Mixture
	Perform experiments to separate different kinds of mixtures and present a report on your findings using drawing and written work.
	Guide learners to identify the application or industrial use of the filtration, evaporation, etc. methods of separation.
	Assessment State one solvent for each of the following substances
	i. Common salt
	ii. Oil paint iii. Coal tar
	iv. Sucrose
	v. chlorophyll
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.

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Week Ending:		DAY:		Subject: Science	:e	
Duration:				Strand: Cycles		
Class: B8		Class Size:		Sub Strand: Th	ne Carbon (	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 the carbon cycle.				Lesson: 1 of 2		
Performance Indicator Learners can describe t	he process of t			Core Compe DL 5.3: CI 6.8		5.6:
References: Science Cu	rriculum Pg. 57	7				
Phase/Duration	Learners Acti	vitios			Resou	ırcos
PHASE 1: STARTER		earners on the pre	evious lesson.		Kesot	11 CE2
		·	ntroduce the lessor	1.		
PHASE 2: NEW LEARNING	have encount Revise with leand respirat Have learners atmosphere Guide learner The carbon cyexchanged an atmosphere Let learners i write short n Stage 1: Carbo Stage 2: CO2 is Stage 3: Animote their system. Stage 4: Animote reabsorbed be	earners to define ion.  discuss the role is to explain the cycle is the biologication of earth.  dentify the carbo otes on what hap on enters the atmost absorbed by autodis consume plants, als and Plants die, ack into the atmostication.	cal cycle by which re, pedosphere, ge on cycle from chart opens at each stag sphere as CO2. The otrophs such as greathereby, incorporat their bodies decomp	photosynthesis in the  carbon is osphere, and s or pictures and e. en plants. ing carbon into ose and carbon is	d	es and Charts

	Carbon Cycle  Sunlight CO2 in the atmosphere Photosynthesis by producers Plant respiration Carbon fixation by consumers  Decomposition	
	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:	<u> </u>			Strand: Cycles		
Class: B8	(	Class Size:		Sub Strand: The C	Carbon 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 the carbon cycle.			n the process of the	e Lesson:		
Learners can describe t	Performance Indicator:  Learners can describe the process of the carbon cycle.  Core Competen DL 5.3: CI 6.8: DL					.6:
References: Science Cu	rriculum Pg. 57					
Phase/Duration PHASE 1: STARTER	Learners Activi	ities arners on the pre	ovious losson		Resou	rces
THASE I. STARTER		·	ntroduce the lesson	1.		
PHASE 2: NEW LEARNING	Revise with lead and respiration.  Have learners of atmosphere.  Guide learners The carbon cyclexchanged amount atmosphere of the carbon cyclexchanged amount atmosphere of the carbon cycles and the carbon cycles are also are	red.  arners to define on.  discuss the role  to explain the cole is the biologic ong the biospher of earth.  entify the carbon tes on what hap a enters the atmonabsorbed by autos consume plants, and Plants die, is and Pla	cal cycle by which e, pedosphere, geon cycle from charts opens at each stages sphere as CO2. Otrophs such as greet thereby, incorporate their bodies decomposition.	photosynthesis in the carbon is osphere, and s or pictures and e. en plants. ing carbon into ose and carbon is	Picture	es and Charts

	Carbon Cycle	
	Photosynthesis by producers Plant respiration Carbon fixation 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.	

Vetted By:	 Sign:	

Week Ending:			Subject: Science					
Duration:			Strand: Cycles					
Class: B8		Class Size:		Sub Strand: Life Cycle Of The Anopheles Mosquito				
B8.2.2.1 Demonstrate and the Anopheles mosquito a mosquito on humans car	and show how th n be managed			ibe the life cycle ar ance of the Anoph		Lesson: 1 of 1		
Performance Indicator Learners can describe t Anopheles mosquito		nd economic impo	rtance of the	Core Competer DL 5.3: CI 6.8: DL		.6:		
References: Science Cu	rriculum Pg. 59	)						
Phase/Duration PHASE 1: STARTER		earners on the pre			Resou	rces		
	why they dis	slike them.	common insects in troduce the lesson					
PHASE 2: NEW LEARNING	Explain to learnot bite huma anopheles mention example: The plasmodium will be a series of the plasmodium will be a serie	earners to describe arners that, most ans nor transmit a nosquito does.  The describe and the series of the series that the se	e a mosquito.  reeds in stagnant wo nd even in surround  of these species of ny kind of a diseas  rch on the internet opheles mosquito nosquito is the vector	f mosquitoes do e, but the female to find more to find more the disease malaria.	Picture	es and Charts		

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

Take feedback from learners and summarize the lesson.

Week Ending:		DAY:		Subject: Science					
Duration:		<u> </u>		Strand: Cycles					
Class: B8		Class Size:	LIASS SIZE:			b Strand: Life Cycle Of The Anopheles osquito			
Content Standard: B8.2.2.1 Demonstrate an a the Anopheles mosquito a mosquito on humans car	nd show how th n be managed			iscuss the impac osquito on huma rolled			Lesson: 1 of 1		
Performance Indicator Learners can discuss the can be controlled		e Anopheles mosq	uito on human	s and how it		Compete CI 6.8: [	encies: DL 5.1: CI 6.6:		
References: Science Cur	riculum Pg. 59	9							
Phase/Duration	Learners Acti	vitios				Docou	rcoc		
PHASE 1: STARTER		earners on the pre	evious lesson.			Resou	ces		
		g indicators and ir		esson.					
PHASE 2: NEW LEARNING	Give learners their finding: Example:  1. Mosquitoe  Brainstorm le  the envir  the chem  the biolo  The gene  Guide learner malaria in G  1. The enviro of chocke weeding/o of the fel  The biolog mosquito eating fish mosquito and thus	onmental method of d gutters [stagnand clearing of bushes in male anopheles m ical method of cont like; insecticides or us stages of their gical method involve parasite to control infested ponds to fo control their pope	this activity. Heass for discussions for discussions for discussions for some method method, and for the method for the method for the method for the mosquito controlling mosquito for pesticides to kind development. The set he use of the fits population. For the set of the mosquito for the mosq	ave them preser on.  ans and other areds to control mades to controlling of involves; the deer and the pay the breeding grows involves the used in the mosquitoes are natural enemy for instance, mosquito eggs and lared into eggs and lared on the payer of the produced into eggs and lared on the payer of t	nt nimals laria. raining rounds se of during ruito		es and Charts		
	release of	ic method involves sterile [infertile] n es into the environ	nale mosquitoes;	i.e. male anophe	les				

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

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Week Ending:		DAY:			Subject: Science			
Duration:				Strand: Systems				
Class: B8		Class Size:		Sub Strand: Mamm	nalian To	ooth		
tooth and the functions of relation to feeding in m	the different ty an	wledge of parts of mammalian the different types of teeth in an						
Performance Indicator Learners can identify pa		alian tooth		Core Competen DL 5.3: CI 6.8: DL	cies: 5.1: CI 6	.6:		
References: Science Cur	riculum Pg. 59	)		•				
Phase/Duration PHASE 1: STARTER	Learners Acti	vities earners on the pro			Resou	rces		
11	Ask learners to why they dis	to mention some slike them.	common insects in					
PHASE 2: NEW LEARNING	Dentition refethe the teeth method the teeth method in the teeth method is a suited. Guide learner Homodont de Learners talk [wisdom] teethod is a suite learner teethod in groups, learner teethod is a suite learner teethod in groups, learner teethod is a suite learner teethod in groups, learner teethod is a suite learner teethod in groups, learner teethod is a suite learner teethod in groups, learner teethod is a suite learner teethod in groups, learner teethod is a suite learner teethod in groups, learner teethod is a suite learner teethod in groups, lea	couth of an animal sunderstand that [adapted] to the rest to discuss the trentition and Heter about the milk [ceth.  The trentition and laborate and	number and the ari	on in an animal is reeding.  mammals.  d the permanent  halian tooth.  crown found	Picture	es and Charts		

	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: 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:			Strand: Systems						
Class: B8		Class Size:		Sub Strand: Mamm	malian Tooth				
Content Standard: B8. 3.1.1 Demonstrate knot tooth and the functions of relation to feeding in m  Performance Indicator	the different ty an	ypes of teeth in	Indicator: B8.3.1.1.2 Discus different types of canines, premola	cies:	Lesson: 1 of 1				
Learners can discuss the		• •	of teeth	DL 5.3: CI 6.8: DL	5.1: CI 6.	.6:			
References: Science Cui	rriculum Pg. 5	9							
Phase/Duration	Learners Acti				Resou	rces			
PHASE 1: STARTER	Ask learners why they dis	slike them.	common insects in						
PHASE 2: NEW LEARNING	<ul> <li>Types of teet</li> <li>Incisors- cutting f</li> <li>Canines- for shea</li> <li>Molars ar tiny proje grinding</li> </ul>	Share learning indicators and introduce the lesson.  Discuss the functions of the different types of human teeth.  Types of teeth  Incisors- The incisors are the front row teeth and are used for cutting food.  Canines- The canines are conical edged in shape and are used for shearing flesh from bones							
DUACE 2.	State one fun 1) Incisors	State one function of each of the following  1) Incisors 2) Canines 3) Molars 4) Premolars							
PHASE 3: REFLECTION			ve questioning to during the lesson.	find out from					
	Take feedbac	ck from learners a	nd summarize the	lesson.					

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Week Ending:	DAY: Subject: Science					
Duration:						
Class: B8		Class Size:		Sub Strand: Tooth	ım Decay	
Content Standard: B8. 3.1.1 Demonstrate knot tooth and the functions of relation to feeding in m	f the different ty		Indicator: B8.3.1.1.3 Explair prevention of too	n the causes and th and gum decay.		Lesson: 1 of 1
Performance Indicator Learners can explain the		revention of tooth	and gum decay	Core Competend DL 5.3: CI 6.8: DL		.6:
References: Science Cur	rriculum Pg. 65	j				
Phase/Duration	Learners Acti	vitios			Resou	rcos
PHASE 1: STARTER		earners on the pre	evious lesson.		Nesou	ices
		·				
DILACE 2: NEW		_	ntroduce the lesson		D: -+	a and Chart
PHASE 2: NEW LEARNING			n some disease of tl ard and discuss wit		Picture	es and Charts
	keywords in There are man among them in Guide learner and formation decay.  1. Dental carri Tooth decay of teeth. This is a some bacteria time.  2. Plague It consists of a on the teeth wand other mid.  3. Periodonta Gum disease is causes the gum to also bleed Periodontal disit is not treated.  Guide learner treated or p	the lesson.  y diseases that can ncludes; tooth deco es to describe the n of plaque and the des [tooth decay] ecurs when small he due to the accumula on sugary foods the esticky film layer de which has been mixed ecroorganisms.  I [gum] disease es an advanced form n to be inflamed; i. frequently. esease may also lead ted.  es to discuss how	ronunciation and manager affect the teeth, but ay, plaque and gum causes of tooth deen proper way of probles are created in the attion of acids as a result are left on the end with saliva by the saliva by the to bad breath and the each of the tooth of	t the common diseases eventing tooth  the enamel of the sult of the action of amel for a long  up of food remains action of bacteria  when bacteria  the loss of teeth if		

	1.	The	affected	l tooth	can	be	removed	in	order	to	prevent	the	infect	ion
j	fro	om s	preading	•										

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.

### Assessment

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.

Take feedback from learners and summarize the lesson.

Week Ending:		DAY: Subject: Science					
Duration:					Strand: Systems		
Class: B8		Class Size:		9	Sub Strand: Tooth	And Gum Decay	
Content Standard: B8. 3.1.1 Demonstrate k tooth and the functions relation to feeding in i	of the different		Indicator: B8.3.1.1.3 Expl of tooth and g	lain th	e causes and prever		Lesson: 2 of 2
Performance Indicate	nce Indicator: Core Competence and explain the causes and prevention of tooth and gum decay DL 5.3: CI 6.8: DL 5.3						4.4.
References: Science C		•	ui and guin deca	у	DE 5.5. CI 6.6. DE	J. I. CI	0.0.
References. Selence C	difficulturing.	<u> </u>					
Phase/Duration	Learners Activities						urces
PHASE 1:	Revise with I	earners on the pro	evious lesson.				
STARTER	Share learnin	ng indicators and in	ntroduce the less	on.			
PHASE 2: NEW LEARNING	Share learning indicators and introduce the lesson.  Guide learners to discuss how to ensure a strong and a healthy teeth.  1. Brush your teeth at least two [2] times daily; i.e. in the morning and in the evening, in order to remove plaque which leads to teeth decay.  2. Avoid eating too much sugary foods 3. Avoid eating either too hot or too cold foods. 4. Change your toothbrush at least once every three months 5. Frequently chew tough substances like bones and fibers like sugarcane in order to strengthen the teeth 6. Avoid sharp pointed objects like pins, needles, knife, broom, sticks, etc. 7. Visit the dentist regularly, at least twice a year for teeth examination, advice and treatment.  Using pictures and charts demonstrate to learners the proper ways of cleaning the teeth.						
	Place the 45° angel tooth surface must contact of tooth and gu	o the front . Bristles circul both lines	ove the brush in a mall, jiggling, ar motion.	in a	Clean the inside surfaces of the back by moving the brush a small back and motion.		



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.

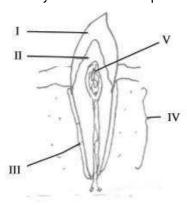


Clean the inside surfaces of the back teeth by moving the brush in a small back and forth motion.

### 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.

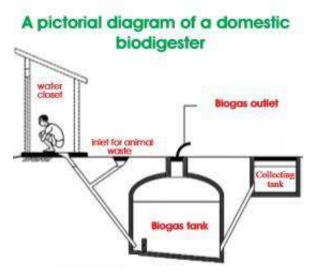
Take feedback from learners and summarize the lesson.

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Week Ending:	DAY: Subject: Science							
Duration:				Strand: Forces & E	nergy			
Class: B8		Class Size:		Sub Strand: Energy	gy Conversion			
Content Standard: B8.4.1.1 Demonstrate the of energy from one form	n to another	e the conversion	Indicator: B8.4.1.1.1 Descr	ibe energy conversion	gy conversion Lesso			
Performance Indicator Learners can describe e		ion		DL 5.3: CI 6.8: DL				
	References: Science Curriculum Pg. 69							
	Phase/Duration Learners Activities Resources							
Phase/Duration PHASE 1: STARTER		Learners Activities  Revise with learners on the previous lesson.						
THASE 1. STARTER		•	ntroduce the lesson	ı.				
PHASE 2: NEW LEARNING	do all the val Every type of used to do. There is the another form  Brainstorm le The process do of energy is k  Revise with l The law of cor created nor be Have learners It enables a m into a less avo	rious kinds of word energy has a particular to sometime that can be used earners for the meaning which one for known as energy content of energy e destroyed but it it is discuss the important and the core available but a more the rious of the core available how ther.	es change one form to perform partic eaning of energy co or of energy changes	that it can be of energy into cular work.  In of energy into conversion.  In of energy.  In of energy.  In onversion.  In orm to be changed of the conversion.  In orm to be changed of the changed of th	Picture	es and Charts		

	<ul> <li>Assessment</li> <li>What is energy conversion?</li> <li>State and explain the law of conservation of energy.</li> <li>Describe three ways how energy is converted from one form to another</li> </ul>	
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:		<u> </u>		Strand: Forces & E	Energy		
Class: B8		Class Size:		Sub Strand: Energ	y Conve	rsion	
Content Standard: B8.4.1.1 Demonstrate the of energy from one form	n to another	e the conversion	Indicator: B8.4.1.1.2 Discuss conversion of end	ergy.	2 of 2		
Performance Indicator Learners can discuss the		of conversion of	energy	DL 5.3: CI 6.8: DL		.6:	
	rences: Science Curriculum Pg. 69						
Phase/Duration	Learners Acti				Resou	rces	
PHASE 1: STARTER	Revise with l	earners on the p	revious lesson.				
	Share learnin	g indicators and	introduce the lessor	1.			
PHASE 2: NEW LEARNING	energy forms the less avail from non-re Guide learne energy. a. Renewable sou inexhaustible continuous us Examples of the sun, tidal energy from b. Non - Renewable are exhaustible continuous us Examples of neergy from fi substances, chiogas from continuous distances, chiogas from continuous us Examples of neergy from fi substances, chiogas from continuous distances, chiogas from continuous distances dis	are usually obta able but more usually obta able but more usually or cannot be sources of energy regin supply or cannot see. The renewable sources of energy from the see in supply or can see. The sources of energy from the see in supply or can see. The sources of energy from the see in supply or can see. The sources of energy from the see in supply or can see. The sources of energy from the see in supply or can see. The sources of energy from the see in supply or can	newable and non-ren ergy fers to all those energ it get depleted with til erces of energy includes ea, wind energy from itc.  Of Energy rgy refers to all those get finished with tim urces of energy includ [], nuclear energy from m natural gas or crude waste, etc.  processes that a pla	the sources while re also obtained sewable sources of any sources that are me as a result of any solar energy from moving air, hydro energy sources that e as a result of the second sec	Picture	es and Charts	



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.



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.

Take feedback from learners and summarize the lesson.

Week Ending: DAY:		Subject: Science					
Duration:				Strand: Forces & Energy			
Class: B8 Class Size:				Sub Strand: Renewable & Non-Renew Energy			-Renewable
Content Standard: B8.4.1.2 Show an understanding of the sources renewable energy and how to manage these so sustainable manner				Describe renewable and non- forms of energy		and non-  Lesson: 1 of 2	
Performance Indicator: Learners can describe renewable and non-renewable forms of energy  Core Competer DL 5.3: CI 6.8: DL							
References: Science Cu	rriculum Pg. 70	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.				Resou	es and Charts	
DUACE 2.	Guide learners to identify the various sources of renewable and non-renewable forms of energy and classify them e.g. wind, coal, hydro, crude oil, natural gas, solar and biogas.  Describe how to produce energy from a renewable source.						
PHASE 3: REFLECTION	learners what	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:				Strand: Forces & Energy			
Class: B8 Class Size:				Sub Strand: Renew Renewable Energy			
B8.4.1.2 Show an understanding of the sources of				strate how to manag ble energy sustainab			
Performance Indicator: Learners can demonstrate how to manage sources of renewable energy sustainably  Core Competed DL 5.3: CI 6.8: D					<b>etencies:</b> 8: DL 5.1: CI 6.6:		
References: Science Curriculum Pg. 70							
Phase/Duration PHASE 1: STARTER	Learners Activities Revise with learners on the previous lesson. Share learning indicators and introduce the lesson.				Resources		
PHASE 2: NEW LEARNING	Research about information on the stages involved in managing renewable energy sources  Create a table to describe challenges associated with the management of different sources of renewable energy					Charts	
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:	Ending: DAY: Subject: Science						
Duration:					nd: Forces & Ener	gy	
Class: B8		Class Size:			Strand: Heat And		ature
Content Standard: B8.4.1.3 Demonstrate an understanding of the relationship between heat and temperature  Indicator: B8.4.1.3.1 Discuss the differences and relationship between heat and temperature in the environment					ences and the Lesson:		
Performance Indicator: Learners can describe the differences and the relationship between heat and temperature  Core Competence DL 5.3: CI 6.8: DL 5.3					6:		
References: Science Cui	rriculum Pg. 7	1					
Phase/Duration PHASE 1: STARTER	Learners Acti		avious lessen			Resou	rces
FRASE I: STARTER		earners on the pro		sson.			
LEARNING	Temperature is substance Heat is a form due to a differ  Create a tabl and heat.  1. Definition coldness of transferre temperat 2. Units: Ten (°C) or Fal or calorie 3. Transfer: another whand, alw. 4. Sensation: thermome inferred fr 5. Dependen energy of the tempe 6. Effect: Ter such as its hand, can as well as	nperature is typical hrenheit (°F), while	degree of hotner transferred from re.  inguishing feat measure of the de heat is a form another due to ly measured in us heat is measure e transferred from a re in contact. It the object to a depends only on the pends only on the lount of substance, while he hount of substance physical proper acture and physical state of matter and p	ures of egree of end a difformatis of end in under the end of each or d, but on the each or ea	coldness of a mody to another of temperature of hotness or ergy that is erence in f degrees Celsius nits of joules (J) e object to on the other object. with a crather it is ical effects. erage kinetic epends on both f a substance, eat, on the other e of a substance,		

	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: Subject: Science						
Duration:				Strand: Forces & Energy			
Class: B8		Class Size:		Sı	Sub Strand: Electricity And Electronics		
transmission  Performance Indicator Learners can explain ho	strate knowledge of electricity B8.4.2.1.1 Explain how electricity transmission occurs.						
	3						
Phase/Duration	Learners Activities					Resou	rces
PHASE 1: STARTER		earners on the p		n.			
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 electricity to end-users via a network of power lines 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 constitute questioning to	fine	•		
REFLECTION		•	at during the lesson. and summarize the		son.		

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Week Ending:		DAY:		Subject: Science			
Duration:		Strand: S		nd: Strands for th	Strands for the term		
Class: B8	ss: B8		Class Size:		Sub Strand: Sub strands for the term		
Content Standard: Demonstrate knowledge topics treated so far.		nding in the	Indicator: Recall and su learnt withi		rize all what they have e term 1 of 1		
Performance Indicator: Learners can recall and summarize all what they have learnt within the term  Core Competer DL 5.3: CI 6.8: DL							
References: Science Cui	rriculum Pg. 7	1					
Phase/Duration	Learners Acti	vities				Resources	
PHASE 1: STARTER		earners on the pre	evious lesson.			11000	
	Share learning indicators and introduce the lesson.						
PHASE 2: NEW LEARNING					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.	

Veek Ending: DAY:		DAY:		Subject: Science			
Duration:			Strand: Strands treated for the term				
Class: B8	Class Size:			Sub Strand: Sub st	trands for the term		
Content Standard: Demonstrate knowledge and understanding in the topics treated so far.			Indicator: Preparation toward	ds vacation		Lesson: 1 of 1	
Performance Indicator: Learners can answer all end of term assessment questi exercise books.			ions in their	Core Competend DL 5.3: CI 6.8: DL		6:	
References: Science Curriculum							
Phase/Duration PHASE 1: STARTER	Learners Activities					Resources Exercise books, pen, pencils, erasers, Answer sheets.	
FIIASE 1. STARTER	Ask learners to bring and display all the materials needed for the assessment.  Educate them on the consequences of examination mal practice.						
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			SBA, Assessment Questions and exercise books.			
	feedback.						

Vetted By:	Sign	
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