# FIRST TERM SCIENCE LESSON NOTES – JHS $\,$ I

#### SCHEME OF LEARNING - TERM I

WEEKS	STRAND	SUB STRANDS	CONTENT STANDARD	INDICATORS	RESOURCES
I	Diversity Of Matter	Materials	B7.1.1.1	B7.1.1.1-2	Picture chart of the states of
2	Diversity Of Matter	Materials	B7.1.1.1	B7.1.1.3 B7.1.1.2.1	matte, The periodic table
3	Diversity Of Matter	Living Cells	B7.1.2.1	B7.1.2.1.1	Picture chart of
4	Diversity Of Matter	Living Cells	B7.1.2.1	B7.1.2.1.2	plant and animal cell
5	Cycles	Earth Science	B7.2.1.1	B7.2.1.1.1	Picture chart of
6	Cycles	Earth Science	B7.2.1.1	B7.2.1.1.2	water cycle
7	Cycles	Life Cycles Of Organisms	B7.2.2.1	B7.2.2.1.1	Picture chart of the life cycle of
8	Cycles	Life Cycles Of Organisms	B7.2.2.1	B7.2.2.1.2	Housefly
9	Cycles	Crop Production	B7.2.3.1	B7.2.3.1.1	picture chart of foods
10	Cycles	Crop Production	B7.2.3.1	B7.2.3.1.2	picture chart of foods
11	Cycles	Animal Production	B7.2.4.2	B7.2.4.1.1-2	Picture chart of
12	Cycles	Animal Production	B7.2.4.2	B7.2.4.2.1-2	domestic animals.

#### WEEKLY LESSON PLAN – B7

#### WEEK I

Date:		Period:		Subject: Science		
Duration:			Strand: Diversity Of M		f Matter	
Class: B7		Class Size:		Sub Strand: Materia	ıls	
Content Standard: B7.1.1.1 Recognize materials for providing human needs	s as importan	t resources	Indicator: B7.1.1.1.1 C liquids, solid	lassify materials into s and gases	Lesson:	
Performance Indicator: Learners can group material solids and gases	ls in the envir	onment into	liquids,	Core Competencie CI 5.2, CP 5.1: CC 8.2		
References : Science Curr	iculum Pg.2					
Keywords: texture, appe	arance, asse	mbled				
Phase/Duration	Learners A	Activities			Resources	
PHASE I: <b>STARTER</b>	they alread	dy know abo	out the three	out from learners who	states of matte, The periodic table	
	Snare the	pertormance	e indicators v	with learners.		
PHASE 2: <b>NEW LEARNING</b>	Engage learners to create and complete a table to record the texture, appearance, color and shape of a group of materials assembled from the environment.  Learners to group materials into liquids, solids and gases.  Solids  He  Ho  Ho  Ho  Gases  Plasma  Plasma					
	Solids Have fixe  Cant flow Very den	ed shape	s among liqu liquids Do not have fixed shape Can flow Less dense	ids, solids and gases.		

	Give examples of solids, liquids and gases that can be identified from your environment.	
	Assessment  I. Mention three things in the environment that are gaseous in nature.  2. state three differences between liquids and gas	
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.	
	Ask learners how the lesson will benefit them in their daily lives.	

Date:	Period:		Subject: Science		
Duration:		Strand: Diversity Of N		1atter	
Class: B7	Class Size:		Sub Strand: Material	S	
Content Standard: B7.1.1.1 Recognize materials for providing human needs Performance Indicator:	s as important resources		Discuss the importance the life of humans  Core Competencies	Lesson:	
Learners can talk of the imp	CP 5.6:				
References : Science Curri	iculum Pg.2				
Keywords: regulate, moiste	ens, nutrients				
Phase/Duration	Learners Activities			Resources	
PHASE I: <b>STARTER</b>	Using questions and answers, revise with learners what was studied in the previous lesson.  Share the performance indicators with learners.			Picture chart of the states of matte, The periodic table	
PHASE 2: NEW LEARNING	Learners to present a report on the importance of liquids to human life using the internet to search for information  WATER  COMPOSES 75% OF YOUR BRAIN  REGULATES YOUR BODY TEMPERATURE  MAKES UP 83% OF YOUR BLOOD REMOVES WASTE  COMPOSES 22% OF YOUR BONES  CUSHIONS YOUR JOINTS  MAKES UP 75% OF YOUR BODY ABSORB NUTRIENTS MAKES UP 75% OF YOUR MUSCLES  In groups of 3 or 4 let learners describe the need to preserve liquids for human use. Note the grouping should be mixed sex unless it is one sex school  Record liquids they see being used in their community.  Assessment				
PHASE 3: REFLECTION	I. mention four impor Use peer discussion a from learners what th	nd effective o	questioning to find out		

Take feedback from learners and summarize the lesson.	
Ask learners how the lesson will benefit them in their daily lives.	

<b>Date:</b> 28 <sup>th</sup> JAN, 2022		Period:		Subject: Science	
Duration:				Strand: Diversity Of	Matter
Class: B7		Class Size:		Sub Strand: Material	S
B7.1.1.1 Recognize materials as important resources			Indicator: B7.1.1.1.3 D of specific so	viscuss the importance plids to life	Lesson: 3 of 4
Performance Indicator:  Learners can Identify solids in the environment that support the survival of humans  Core Competencies: CI 5.2, CP 5.1: CC 8.2: CF					
References : Science Curri	iculum Pg.2				
Keywords: texture, appea	arance, asse	embled			
Phase/Duration	Learners	Activities			Resources
PHASE I: <b>STARTER</b>			nswers revis	e with learners what	resources
TINGE I. STARTER	was studio	ed in the pre	vious lesson.		
PHASE 2: <b>NEW LEARNING</b>	Share the performance indicators with learners.  Guide learners to Identify solids in the environment that support the survival of humans and other life forms.  Example: iron bars, tables, chair, table salt, sugar, ice block, frozen carbon dioxide (dry ice), glass, rock, metallic objects, and wood  Engage learners to name and describe materials assembled from the environment in terms of texture, appearance, color, smell and shape  Guide learners to search on the internet to obtain information to explain the need to preserve useful solid materials in the environment for life.  Model objects from solid materials that can be useful to humans and other life forms.  Assessment  Let learners search the internet, books, parents, people in their community to identify any household and				
PHASE 3: REFLECTION	Commercial materials and explain their uses to humans  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.  Ask learners how the lesson will benefit them in their daily lives.				

<b>Date:</b> 28 <sup>th</sup> JAN, 2022		Period:		Subject: Science		
Duration:				Strand: Diversity Of	Matter	
Class: B7		Class Size:		Sub Strand: Materials		
Content Standard: B7.1.1.2 Understand the periodic table as different elements made up of metals and non- metals and noble gases arranged in an order			knowledge of the orderly		Lesson: 4 of 4	
Performance Indicator: Learners can identify the fir- table	st 20 eleme	ents in the pe	riodic	Core Competencies: CI 5.2, CP 5.1: CC 8.2:		
References : Science Curr	iculum Pg.2					
Keywords: periodic table	, noble gas	es				
Phase/Duration	Learners	Activities			Resources	
PHASE I: <b>STARTER</b>	was studi Recap to elements	estions and ared in the pre- find out what and the perio				
PHASE 2: <b>NEW LEARNING</b>	Share the performance indicators with learners.  Brainstorm to bring out the meaning of the term element  Engage learners to gather different materials from the environment and classify them as elements.  Name and write the chemical symbol of the first 20 elements in the periodic table.  Element Symbol Hydrogen H Helium He Lithium Li Beryllium Be  Guide learners to Identify metals, non-metals and noble gases in the periodic table.  Discuss the uses of the elements, nitrogen(N), phosphorus(P) and potassium(K) in crop production.			Picture chart of the states of matte, The periodic table		

	Deduce from the periodic table that the elements are arranged in order of their atomic number and those in the same group have common properties.	
	Assessment 1. what is an element? 2. use chemical symbols to represent the following elements; Sodium, Calcium, Potassium, Nitrogen, Phosphorus	
PHASE 3:	Use peer discussion and effective questioning to find out	
REFLECTION	from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	
	Ask learners how the lesson will benefit them in their daily lives.	

<b>Date:</b> 4 <sup>TH</sup> FEB, 2022		Period:		Subject: Science	
Duration:				Strand: Diversity Of Matter	
Class: B7		Class Size:		Sub Strand: Living Ce	lls
B7.1.2.1 Demonstrate understanding of the structure of organisms and functions of cells in living				Describe the nd function of living animal	Lesson:
<b>Performance Indicator:</b> Learners can describe the cells		nd function o	of living	Core Competencies DL 5.5, CC 8.2, CP 5.7	
Reference: Science Curr	riculum Pg. 5	5			
Keywords: Nucleus, Mem	brane, vacuo	le, mitochondr	rion		
DI /D ::		A			
Phase/Duration PHASE I: STARTER	Learners			arners through	Resources
	Share the lesson.	•	e indicators a		
PHASE 2: NEW LEARNING	Share the performance indicators and introduce the lesson.  Identify and describe the structure of an animal cell seen in a picture, video, a chart and a magnifier.  Cross-Section of an Animal Cell  Cell Membrane  Nucleus  Nucleus  Nucleus  Nucleus  Nuclear  Membrane  Vacuole  Nucleus  Nucleus  Nucleus  Nucleus  Nuclear  Membrane  Vacuole  Nucleus  Nuc				

	Draw and label an animal cell.  Nucleous  Nucleous  Endoplasmic Reticulum  Cytoplasm  Golgi Apparatus  Develop a model to represent an animal cell.	
	<ul> <li>Assessment <ol> <li>Draw a well labelled diagram of an animal cell.</li> <li>Write the importance of mitochondrion in an animal cell.</li> </ol> </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.	

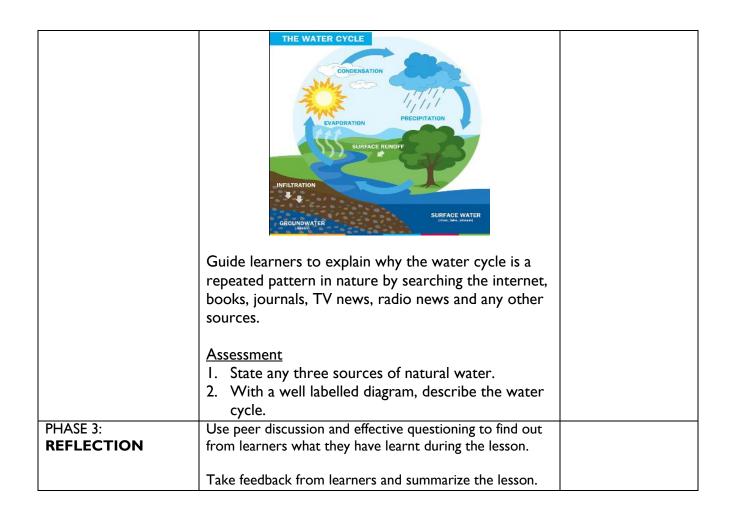
Date: 11 <sup>th</sup> FEB, 2022		Period:		Subject: Science		
Duration:	<u> </u>			Strand: Diversity Of Matter		
Class: B7	CI	lass Size:		Sub Strand: Living C	ells	
Content Standard: B7.1.2.1 Demonstrate undestructure of organisms and systems		s in living		tate the functions of elle in a plant cell	Lesson: 3 of 4	
Performance Indicator:  Learners can talk about the functions of organelle in plant cells  DL 5.5, CC 8.2, CP 5.7, D						
Reference: Science Curi	riculum Pg. 6					
Keywords: Nucleus, Mem	brane, vacuole, n	nitochondi	rion			
Phase/Duration	Learners Act	ivities			Resources	
PHASE I: <b>STARTER</b>	Revise with I	earners t	hrough quest	tions and answers to		
			• .	he previous lesson.		
	Share perfor	mance ind	dicators and	introduce the lesson.		
PHASE 2: <b>NEW</b>	Revise with I	earners t	he meaning c	of living cell.	Picture chart of	
LEARNING	A living cell is	s the sma	llest unit of a	a living organism.	plant and animal cell	
	Nucleu  Chloroplast	Let learners identify and describe the structure of a plant cell as seen in a video, a chart, pictures and magnifiers.  Plant Cell Diagram  Cell wall  Mitochondria  Chloroplast  Cytoplasm				
	the plant cell Example: Cel cells. Chloroplast of chlorophyll. Let learners parts of a pla	Chloroplast contains the green pigment called chlorophyll.  Let learners look at a sample of a plant cell from different parts of a plant with a microscope, magnifier or, watch a video or pictures and confirm that plants are made up of				

	Guide learners to draw and label a plant cell.	
	Assessment Draw a well labelled diagram of a plant cell	
	State the function of the nucleus, cell membrane and cytoplasm	
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.	

Date: II <sup>th</sup> FEB, 2022		Period:		Subject: Science		
Duration:				Strand: Dive	ersity Of	Matter
Class: B7		Class Size:		Sub Strand: Living Cells		ells
Content Standard: B7.1.2.1 Demonstrate under structure of organisms and systems	•			tate the similari etween a plant		Lesson: 4 of 4
Performance Indicator:  Learners can state the difference between a plant cell and animal cell  Core Competencies: DL 5.5, CC 8.2, CP 5.7, D						
Reference: Science Curri	iculum Pg. 6	<b>)</b>				
Keywords: Nucleus, Memb	orane, vacuo	le, mitochondr	rion			
Phase/Duration	Learners	Activities				Resources
PHASE I: STARTER	Revise wi	th learners tl		tions and answ he previous le		
			•	introduce the		
PHASE 2: <b>NEW LEARNING</b>				a chart on the and plant cell		Picture chart of plant and animal cell
		Guide learners to discuss the similarities between a plant cell and animal cell.  Animal cell  Has cytoplasm Has cell membrane Has nucleus  Has nucleus				
		rners to disc	uss the simi	arities betwee	en a plant	
		Animal cell		nt cell		
		Has no cellulo wall	wal			
	Has no fixed or rigid shape shape  Stores food in the form of glycogen form of starch Has small and Has large and					
	Guide lea	temporary va		manent vacuole I to represent	a plant	
	cell. Example: microscope Learners to	In groups, learr	ners watch slice	e onions under the	ne light	
	Assessme	<u>ent</u>				

	State three main differences between a plant cell and animal cell.	
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.	

<b>Date:</b> 18 <sup>th</sup> FEB, 2022	3, 2022 <b>Period:</b>			Subject: Science		
Duration:		1		Strand: Cycles		
Class: B7		Class Size:		Sub Strand: Earth Sc	ience	
Content Standard: B7.2.1.1 Recognize that the water cycle is an example of repeated patterns of change in nature and understand how it occurs			water cycle	Explain how the e occurs as a pattern in nature	Lesson:	
Performance Indicator: Learners can describe the				Core Competencies DL5 .1: Cl 5.2: Cl 6.3: C		
Reference: Science Curi	riculum Pg. 7	7				
Keywords: evaporation	,condensa	tion, cycle				
	_					
Phase/Duration PHASE I: <b>STARTER</b>		Activities			Resources	
	review le	Revise with learners through questions and answers to review learners understanding in the previous lesson.  Share performance indicators and introduce the lesson.				
LEARNING	Brainstorm learners to identify the natural sources of water.  Example: groundwater, rainwater, seawater, lakes and rivers  Guide learners to list the stages of the water cycle: evaporation, condensation, precipitation and transpiration while watching pictures and videos.				of Pictures, charts, videos, etc.	
		es in the wat	•	o show the order of d how they are linked	i	



<b>Date:</b> 18 <sup>th</sup> FEB, 2022		Period: Subject: Science			
Duration:		Strand: Cycles			
Class: B7		Class Size:		Sub Strand: Earth Sc	ience
Content Standard: B7.2.1.1 Recognize that the water cycle is an example of repeated patterns of change in natural and understand how it occurs			Indicator:  B7.2.1.1.1 Explain how the water cycle occurs as a repeated pattern in nature		Lesson:
Performance Indicator: Learners can demonstrate e important processes of the	water cycle		on as	Core Competencies DL5 .1: Cl 5.2: Cl 6.3: 0	
Reference: Science Curr					
Keywords: evaporation	,condensa	tion,			
Phase/Duration	Learners	Activities			Resources
PHASE I: <b>STARTER</b>	review le	arners under	standing in th	cions and answers to ne previous lesson.	
DLIACE 2. NIEVA/					Diatumas abanta
PHASE 2: NEW LEARNING	The water describes below the Paste the to observe ln group condense e.g. learn hands (e covering droplets condense condense learners sheet of on transe learners and condense learners learners and condense learners learners and condense learners learn	Revise with learners the meaning of water cycle.  The water (hydrological) cycle is a biological cycle that describes the continuous movement of water on, above and below the surface of the earth.  Paste the water cycle chart on the board for learners to observe and talk about it.  In groups, learners demonstrate evaporation and condensation, e.g. learners observe water drying off their wet hands (evaporation), covering water with a lid and observing water droplets on the lid after some time (evaporation & condensation).  Guide learners to demonstrate evaporation by heating water until it boils (to be done by the teacher), then covering the boiling water with a sheet of transparent glass. Water vapor condenses on transparent glass (condensation).  Learners are assisted to understand how evaporation and condensation lead to the formation of rain.  Display pictures or simple diagrams of the water			

	<ul> <li>Assessment</li> <li>What is a water cycle?</li> <li>What process occurs when water changes from a gas to liquid?</li> <li>What is transpiration?</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.

<b>Date:</b> 25 <sup>th</sup> FEB, 2022		Period:		Subject: Science	
Duration:				Strand: Cycles	
Class: B7		Class Size:		Sub Strand: Earth Sc	ience
example of repeated patter and understand how it occu	Content Standard:  37.2.1.1 Recognize that the water cycle is an water cycle is an water cycle in understand how it occurs  Indicator:  B7.2.1.1.1 water cycle is an water cycle in the water cycle in the water cycle is an water cycle in the water cycle is an water cycle in the water cycle in the water cycle is an water cycle in the water cycle in the water cycle is an water cycle in the water cycle in the water cycle is an water cycle in the water cycle in the water cycle in the water cycle is an water cycle in the water cycle				Lesson:
Performance Indicator: Learners can demonstrate thow clouds are formed	•		and know	Core Competencies DL5 .1: Cl 5.2: Cl 6.3: C	
Reference: Science Curr					
Keywords: transpiration,	condensation	l			
Phase/Duration	Learners	Activities			Resources
PHASE I: <b>STARTER</b>	Revise wi review le	th learners th	standing in t	tions and answers to the previous lesson.	Tresour ces
PHASE 2: NEW LEARNING	Share performance indicators and introduce the lesson. Revise with learners the meaning of water cycle. The water (hydrological) cycle is a biological cycle that describes the continuous movement of water on, above and below the surface of the earth.  Guide learners to breathe out or blow air onto a transparent surface, e.g. a glass or plastic bottle and share their observations.  Explain to learners that just as humans release water vapor when they respire, so do plants when they transpire.  Put learners into groups and give each group a young potted plant, plastic wrap bag and a rubber band to undertake the following activities:  (I) Let learners examine the surface of the leaves of the plants and mop off any water droplets on the leaves.  (2) Tie the plastic wrap bag around the plant up to the stem and leave it for an hour.  (3) Observe both plant and plastic wrap surfaces.  (4) Let learners report on what happens.  Review composition of air with learners. This should include water vapor.				g

	Ask learners the question: what are clouds? And assists learners to come out with this explanation: Clouds consist of many tiny water droplets resulting from the condensation of water vapor into liquid water or ice.	
	Explain that upward vertical motion of air through the atmosphere cools water vapor to form clouds.	
	Learners demonstrate formation of clouds in a bottle.	
	Learners explain why clouds are not formed close to the surface of the ground.	
	Assessment  What is a cloud?  How are clouds formed in the atmosphere?	
PHASE 3: REFLECTION	What is transpiration?  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.	

<b>Date:</b> 25 <sup>TH</sup> FEB, 2022 <b>Period:</b>		Period:		Subject: Science	
Duration:				Strand: Cycles	
Class: B7		Class Size:		Sub Strand: Earth Sci	ience
Content Standard: B7.2.1.1 Recognize that the example of repeated patter and understand how it occu	water cycle is an B7.2.1.1.2 Describe the importance of the water cycle in			Lesson:	
Performance Indicator: Learners can describe the i	mportance o	f the water cyc	cle in nature	Core Competencies DL5 .1: Cl 5.2: Cl 6.3: C	
Reference: Science Curr	iculum Pg. 8	3			
Keywords: precipitation,	condensation	, evaporation			
Phase/Duration	Learners	Activities			Resources
PHASE I: <b>STARTER</b>	Revise wi review le	ith learners th arners unders	standing in th	cions and answers to ne previous lesson. introduce the lesson.	112234133
PHASE 2: NEW LEARNING	i. evapor vapor ii. conde from the iii. precip the atmost Guide le water cy a) Energy b) Carrier c) Improvi d) Regulati	ration- the property of the pr	rocess of tue the change nto the lique ling product rain, snow, of escribe the if of: e of energy to eattern	urning liquid into  of the state of matte id phase ts of condensation in	

	With a diagram, illustrate the importance of the water cycle in a community.	
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.	

Date: 4 <sup>th</sup> MARCH, 2022		Period:		Subject: Science	
Duration:		1		Strand: Cycles	
Class: B7		Class Size:		Sub Strand: Life Cycles Of Organisms	
activities to show the stage	7.2.2.1 Demonstrate the skills of carrying out tivities to show the stages of the life cycle of a pusefly, the effects of its activities on humans and ow to reduce them				
Performance Indicator: Learners can describe the life cycle of the housefly  Core Competencies: DL 5.3:. CC 8.1: DL 5.6: 8.2:					.6: CC 9.6: CI 5.5: CI 6.2: CC
Reference: Science Curr	iculum P.g. 9	9			
Keywords : Nuisance, d	isease, me	nace, food p	oison		
D. /D.	Τ.				
Phase/Duration		Activities			Resources
PHASE I: <b>STARTER</b>	already k	know about h	ouseflies.	out what learners I introduce the lesson	ı.
PHASE 2: NEW LEARNING	of the lift show the hour adult.  Arrange stages.  Learner housefly the cycle	de learners to Identify and describe the stages he life cycle of the housefly.  where the order of the stages of the life cycle of housefly e.g. eggs plarva pupa pupa lt.  The property is any pupa pupa pupa pupa pupa pupa pupa pup			
	Use the	•	describe th	e life cycle of the	

	Show how each stage affects the other  Guide learners to write notes on each of the stages of the housefly.  Example: Eggs – the cycle starts with an egg. The egg is laid by the female fly onto breeding material, usually dead animal or vegetable material, etc.	
	<ul><li>Assessment</li><li>I. Draw and label the life cycle of mosquito.</li><li>2. Describe the stages of the life cycle of mosquito.</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.	
	Ask learners how the lesson will benefit them in their daily lives.	

Date: 4 <sup>th</sup> MARCH, 2022		Period:		Subject: Science	
Duration:				Strand: Cycles	
Class: B7		Class Size:		Sub Strand: Life Cy	cles Of Organisms
B7.2.2.1 Demonstrate the activities to show the stage housefly, the effects of its a how to reduce them	ages of the life cycle of a s activities on humans and B7.2.2.1.1 Describe the life cycle of the housefly			Lesson:	
Performance Indicator Learners can discuss the housefly through an exp	ce Indicator: In discuss the developmental stages of the DL 5.3:. CC 8.1: DL 5.6:				s: .6: CC 9.6: CI 5.5: CI 6.2: CC
Reference: Science Curr	riculum P.g.	9			
Keywords: Nuisance, d	lisease, me	enace, food p	ooison		
Phase/Duration	Learners	Activities			Resources
PHASE I: <b>STARTER</b>		estions and a	neware ravi	ow learners	Resources
THASE I. STARTER	understa	nding in the p	previous less	on.	
DILLAGE O DIENA					
PHASE 2: NEW LEARNING	Show th housefly Guide le housefly rotten fo	re performance indicators and introduce the lesson. Fise with learners to Identify and describe the ges of the life cycle of the housefly.  The worder of the stages of the life cycle of the seefly e.g. eggs adult.  The larva pupa adult.  The delearners to describe how and what a seefly feeds on. e.g. feeding on dead animals, then food, manure, solid and liquid waste and an experiment, discuss the developmental ges of the housefly from the egg to full grown isefly.			Pictures/videos/ models/charts/drawings/ cut-outs, science journals, internet of the stages of the life cycle of the house fly
	Caution learners to wash their with soap under running water after the experiment.				
	Assessm	<u>ent</u>			

	<ol> <li>Draw and label the life cycle of mosquito.</li> <li>Copy and do the work as presented on this sheet and as you may be directed by your teacher. I. Write about things the housefly feeds on. Think of school, home and the community.         <ol> <li>A.</li> <li>B.</li> <li>C.</li> <li>D.</li> </ol> </li> </ol>	
	E	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
NEI EESTION	Take feedback from learners and summarize the lesson.  Ask learners how the lesson will benefit them in their	
	daily lives.	

Date: 11th MARCH, 2022	2 <b>Period: Subject:</b> Science				
<b>Duration:</b> 50mins				Strand: Cycles	
Class: B7		Class Size:		Sub Strand: Life Cyc	les Of Organisms
Content Standard: B7.2.2.1 Demonstrate the skills of carrying out activities to show the stages of the life cycle of a housefly, the effects of its activities on humans and how to reduce them.			the housefly humans and	iscuss the activities of as a menace to show how to reduce of those activities.	Lesson: 3 of 4
Performance Indicator: Learners can describe why the organism is considered menace on humans			as a	Core Competencies CI 5.1: CI 6.6: CC 8.1: CI 5.3: CI 6.3: DL 5.6:	
Reference: Science Curr Keywords: dead animals			ogurgitatos		
Reywords. dead animals	, rotten 100	u, manure, re	guigitates		
Phase/Duration	Learners				Resources
PHASE I: <b>STARTER</b>	understar	estions and are and in the performance inc	revious lesso	on.	
PHASE 2: NEW LEARNING	Share performance indicators and introduce the lesson.  Revise with learners through the stages of the life cycle of a housefly.  The life cycle of the fly starts with the egg and larval stage. These two stages develop in animal and vegetable refuse. The eggs hatch in as little as 24hrs. fly larvae(maggots) are a creamy-white color and are about ½ inch long. This stage lasts for 4-7 days and the shell hardens and darkens. This marks the beginning of the pupal stage. When the pupal stage is complete, the adult fly exits the puparium, dries, hardens, and flies away to feed, with mating occurring soon after emergence.  Learners in groups, use pictures, videos, models and charts to describe how and what a housefly feeds on. (E.g. feeding on dead animals, rotten food, manure, solid and liquid waste)  Have learners to discuss how the activities of the housefly affect humans in terms of:  a) Transfer of types of diseases (such as dysentery).				

	housefly can transmit the pathogens that causes shigellosis, typhoid fever and cholera.	
	b) food poisoning. The disease - causing agents can either be transmitted to food or surfaces when the fly lands. Additionally, pathogens can be transmitted when a fly regurgitates onto food in order to liquefy material for digestion.	
	c) nuisance in the environment.  Files may be more than a bother, since many breed, feed, or live in our food or in unclean sites such as in manure, garbage and dead animals. Files may spread germs to people, food and eating utensils.	
	Assessment  I. Describe why the organism is considered as a menace on humans.  2. Draw and label the life cycle of house fly.	
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.	
	Ask learners how the lesson will benefit them in their daily lives.	

Date: 11th MARCH, 2022		Period:		Subject: Science		
<b>Duration:</b> 50mins				Strand: Cycles		
Class: B7		Class Size:		Sub Strand: Life Cycles Of Organisms		
Content Standard: B7.2.2.1 Demonstrate the skills of carrying out activities to show the stages of the life cycle of a housefly, the effects of its activities on humans and how to reduce them.			the housefly humans and	iscuss the activities of as a menace to show how to reduce of those activities.	Lesson: 4 of 4	
Performance Indicator: Learners can describe why the menace on humans			as a	Core Competencies CI 5.1: CI 6.6: CC 8.1: CI 5.3: CI 6.3: DL 5.6:		
Reference: Science Curric						
Keywords: dead animals,	rotten food	d, intervention	on, Chemical			
Phase/Duration	Learners	Activities			Resources	
PHASE I: <b>STARTER</b>	understan	iding in the p	nswers, revie			
PHASE 2: NEW LEARNING	Engage le controllii Example: Environn – protect sources to Prevention  Chemica – This incomplete learn can reduce on huma  Engage le commun  Assessmet I. Explanda house	y				

	Use peer discussion and effective questioning to find out	1
REFLECTION	from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	
	Ask learners how the lesson will benefit them in their daily lives.	

Date: 18th MARCH, 2022 Per		Period:		Subject: Science		
Duration:				Strand: Cycles		
Class: B7		Class Size:		Sub Strand: Crop Pro	oduction	
Content Standard: B7.2.3.1 Demonstrate understanding of the different plant nutrients (organic, and inorganic fertilizers) and their application in school farming (school gardening)			in a community and categorize		Lesson:	
Performance Indicator:				Core Competencies:		
Learners can describe organ			it sources.	CI 5.2: CP 5.6: CP 5.7:		
References : Science Curi	riculum Pg. I	I				
Phase/Duration	Learners	Activities			Resources	
PHASE I: <b>STARTER</b>	Learners Activities  Recap with learners to review their understanding in the previous lesson.  Introduce the lesson by sharing the performance indicators.					
PHASE 2: <b>NEW LEARNING</b>	main res  Brainstoi nutrients Organic p and also Inorganic carbon.  Learners Example.  Create a organic a Learners inorganic	blant nutrient contain carbo blant nutrients to give exa vitamins table to exp and inorganic to compare nutrient so				
PHASE 3: REFLECTION	Use peer from lear	discussion ar ners what the	nd effective o	questioning to find out out during the lesson.  ummarize the lesson.		

Date: 18th MARCH, 2022 Period:			Subject: Science		
Duration:				Strand: Cycles	
Class: B7		Class Size:		Sub Strand: Crop Pro	oduction
Content Standard: B7.2.3.1 Demonstrate understanding of the different plant nutrients (organic, and inorganic fertilizers) and their application in school farming (school gardening)			characteris nutrients (dinorganic) a	Describe the physical tics of different plant organic and and how each is blants in the field	Lesson: 2 of 2
Performance Indicator: Learners can describe the physical characteristics of different plant nutrients.				Core Competencies: CI 5.2: CP 5.6: CP 5.7:	
References : Science Curr	riculum Pg. I	I			
Phase/Duration	Learners Activities				Resources
PHASE I: <b>STARTER</b>	previous	the lesson b			
PHASE 2: <b>NEW LEARNING</b>	and expl appearar Learners nutrient (e.g. school	arners to Ideain how its pace affect its to describe source may bool garden).	Samples of organic and inorganic fertilizers, Videos, Charts, Pictures		
	nutrient garden).				
PHASE 3: REFLECTION				uestioning to find out at during the lesson.	
	Take feed	lback from le	arners and s	ummarize the lesson.	

Date: 25 <sup>th</sup> MARCH, 2022 Period:		Period:	Subject: Science		
Duration:				Strand: Cycles	
Class: B7		Class Size:	Sub Strand: ANIMAL I		. PRODUCTION
Content Standard: B7.2.4.1 Demonstrate an understanding of the differences among domestic animals such as ruminants, monogastrics and poultry (monogastric herbivore)				examine and list	Lesson:
Performance Indicator: Learners can identify domestic animals in the commun			ity	Core Competencies: DL 5.1: CP 5.6: DL 5.6:	
Reference: Science Curri	culum Pg. 1	2			
Phase/Duration	Learners	Activities			Resources
PHASE I: <b>STARTER</b>	know abo	estions and are out domestic mers mention formance inc			
PHASE 2: <b>NEW LEARNING</b> PHASE 3:	Have leatheir breed List and colour, sused to design and to design and to design and the second	discuss the dize, food/ fe	domestic animals.		
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.				

Date: 25 <sup>th</sup> MARCH, 2022 Period:		Period:	od: Subject: Scie		
Duration:				Strand: Cycles	
Class: B7		Class Size:		Sub Strand: ANIMAL	PRODUCTION
Content Standard: B7.2.4.1 Demonstrate an understanding of the differences among domestic animals such as ruminants, monogastrics and poultry (monogastric herbivore)			and similarities among domestic		Lesson: 2 OF 2
Performance Indicator: Learners can describe the d domestic animals	ınd similaritie	s among	Core Competencies: CP 5.6: CC 8.1: DL 5.3: CP 5.1: CP 5.2:	DL5 .1: CC 8.2:. CP 5.1:	
Reference: Science Curric	culum Pg. 1	3			
Phase/Duration	Learners	Activities			Resources
PHASE I: <b>STARTER</b>	understar	estions and ar nding in the p e the lesson a	j.		
PHASE 2: <b>NEW</b> <b>LEARNING</b>		arners to cla	•	stic animals into pultry.	Picture chart of domestic animals.
		to give exa			
	In groups, learners discuss and write the differences among ruminants, monogastrics and poultry.				
	Have learners write similarities in the nature and characteristics of ruminants, monogastrics and poultry in Ghana and other countries				
PHASE 3: REFLECTION				questioning to find out nt during the lesson.	
	Take feed	lback from le	arners and s	ummarize the lesson.	

# WEEK II

Date: 1st APRIL, 2022	Date: Ist APRIL, 2022 Period:			Subject: Science		
Duration:				Strand: Cycles		
Class: B7		Class Size:		Sub Strand: Animal Production		
Content Standard: B7.2.4.2 Show an understanding of the usefulness of the different types of animals for domestic and commercial purposes			domestic an	viscuss and write the d commercial uses of these of animals	Lesson:	
Performance Indicator:  Learners can describe the uses of animals  Core Competencies:  CP 5.6: CC 8.1: DL 5.3: I  CP 5.1: CP 5.2:						
Reference: Science Curri	culum Pg. 1	4				
Phase/Duration	Learners	Activities			Resources	
PHASE I: <b>STARTER</b>	Using que	estions and are out domestic mers mention	TROSCUL COS			
	Share per	formance inc				
PHASE 2: <b>NEW</b> <b>LEARNING</b>	Brainstorm learners to explain the concepts of domestic use and commercial use of animals.				Picture chart of domestic animals	
	useful an	ooster of any d describe t strics and po				
	mone	one domes				
PHASE 3: REFLECTION				questioning to find out nt during the lesson.		
	Take feed	lback from le				

Date: Ist APRIL, 2022	L, 2022 <b>Period:</b>			Subject: Science		
Duration:				Strand: Cycles		
Class: B7		Class Size:		Sub Strand: Animal F	Production	
Content Standard: B7.2.4.2 Show an understanding of the usefulness of the different types of animals for domestic and commercial purposes				bserve and compare the different types of	Lesson:	
Performance Indicator: Learners can describe the uses of animals				Core Competencies CP 5.6: CC 8.1: DL 5.3: CP 5.1: CP 5.2:	DL5 .1: CC 8.2:. CP 5.1:	
Reference: Science Currio	culum Pg. 1	5				
Phase/Duration	Loarnors	Activities			Resources	
PHASE I: <b>STARTER</b>		estions and ar		vi laamana	Resources	
PHASE 2: <b>NEW</b> <b>LEARNING</b>	Introduce Make a r	e the lesson a esearch on g them and	Picture chart of domestic animals			
	their cor (such as Assessm I. Ident	match the d mmercial use animal wast ent cify any three				
PHASE 3: REFLECTION	Use peer from lear	discussion ar	ey have learr	questioning to find out at during the lesson.		

# REVISION AND END OF TERM ASSESSMENT

Date: 7 <sup>th</sup> APRIL, 2022		Period:		Subject: Science	
Duration: 50 mins				Strand: Strands treated	I for the term
Class: B7		Class Size:		Sub Strand: Sub strand	s for the term
Content Standard: Demonstrate knowledge an treated so far. Performance Indicator: Learners can recall and sum the term	have learnt within the DL5 .1: CC 8.2:. CP 5.1:				
Reference: Science Curri	culum Pg. 1	to 15			
Phase/Duration PHASE I: <b>STARTER</b>	Using que they alrea	Activities estions and answeady know about to	Resources		
PHASE 2: NEW LEARNING	Discuss to Revise willife of hur A living collect learners	ne texture, appear materials assembly to group materials assembly to group materials solids.  Solids  Solids  He differences and the differences and the learners on the mans.  Sith learners the number of the smallest desired and the smallest desired and cell as seen in a seen	rance, cooled from als into live als into live als into live anong lique are important of a lescribe to	•	Pictures and chart.

	Guide learners to Identify and describe the stages of the life cycle of the housefly.
	Show the order of the stages of the life cycle of the housefly e.g. eggs pupa pupa adult.
	Revise with learners to describe how and what a housefly feeds on. e.g. feeding on dead animals, rotten food, manure, solid and liquid waste.
	Assessment  I. Draw a well labelled diagram of a plant and animal cell.  2. State the function of the nucleus, cell membrane and cytoplasm.  3. Draw and label the life cycle of mosquito.  4. Describe the stages of the life cycle of mosquito
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.

Date: 7 <sup>th</sup> APRIL, 2022		Period:		Subject: Science		
Duration: 50 mins				Strand: Strands treated for the term		
Class: B7		Class Size:		Sub Strand: Sub strands for the term		
Content Standard: Demonstrate knowledge and understanding in the topics treated so far.  Indicator: Preparation				or: tion towards vacation		
Performance Indicator:  Learners can answer all end of term assessment questions in their exercise books.  Core Competencies:  CP 5.6: CC 8.1: DL 5.3:  CP 5.1: CP 5.2:					DL5 .1: CC 8.2:. CP 5.1:	
Reference: Science Curriculum Pg. 1 to 15						
Phase/Duration	Learners	Activities	Resources			
PHASE I: <b>STARTER</b>		ers to bring and ssessment.	display al	I the materials needed	Exercise books, pen, pencils, erasers,	
	ior the as	ssessment.	Answer sheets.			
	Educate them on the consequences of examination mal practice.					
PHASE 2: <b>NEW</b> <b>LEARNING</b>	Engage learners to arrange themselves properly to sit for the assessment test.				SBA, Assessment Questions and exercise books.	
	Mark lea	rners answer sl				
	Fill in lea	rner's SBA boo				
	Distribut	te learners ansv back.				