THIRD TERM WEEKLY LESSON NOTES

WEEK 2

Week Ending: 07-07-2023		DAY:		Subject: Social Studies			
Duration: 60MINS			Strand: Environme		Strand: Environme	nt	
Class: B8 C			s Size: Sub Strand: Weat			ner & Climate	
Content Standard: B8.1.3.1 Demonstrate understanding of the significance of weather and climate to the environment Indicator: B8.1.3.1.1. Assess the signific and climate to the environment			gnificance of weather onment I OF 2		Lesson: I OF 2		
Performance Indicator: Learners can sketch maps and interpret landscapes from mapsCore Competencies: CP 5.1: CC 8.1: CC 8.1: CC					9.1: Cł	P 5.2: CC	
References: Social	Studies Curriculu	n Pg.	49				
Keywords:							
Phase/Duration	Learners Activit	ies				Reso	urces
PHASE I:	Engage learners	to go	on a nature to obs	erve r	hysical features of		
STARTER	the school compound. Let them sketch a map of the school compound. They share their maps with the class for further discussion.						
	Share performar	nce ind	dicators with learn	ers.			
PHASE 2: NEW LEARNING	Discuss various ways of measuring the elements of weather and climate, including the use of hygrometer, rain gauge and barometer.				res and ts		
	Thermometer: A common instrument used to measure air temperature. Traditional thermometers use mercury or alcohol, while modern ones may employ digital sensors.						
	 Precipita Rain Gauge: consists of a depth of colle Snow Gauge: measuring th Disdrometer: or snowflakes characteristic 	ation: Measu contair ected p Simila e dept Used s, provi s.	ares the amount of re- ner with graduated r precipitation. In to a rain gauge, bu h of snowfall. to measure the size iding detailed inform	ainfall i narkinş ıt desiş and ve ation c	in a specific area. It gs to indicate the gned specifically for elocity of raindrops about precipitation		
	c. Humidit Hygrometer: Mea air. Common type of evaporation, ar electrical capacita	y: isures es inclu nd cap ince.	the amount of moist Ide psychrometers, v acitive hygrometers,	ure or which u which	water vapor in the se the cooling effect utilize changes in		

	d. Wind:	
	Anemometer: Measures wind speed Common types include cub	
	anemometers which have rotating cubs and ultrasonic	
	anemometers, which use ultrasonic sound waves to detect wind	
	speed and direction	
	 Wind Vane: Determines the direction from which the wind is 	
	blowing It usually consists of a pointer attached to a vertical axis	
	e. Air Pressure:	
	Barometer: Measures atmospheric pressure. Mercury barometers use	
	a column of mercury in a glass tube, while aneroid barometers use a	
	flexible metal chamber that expands or contracts with changes in	
	pressure.	
	f. Sunlight:	
	Pyranometer: Measures solar radiation, including direct and diffuse	
	sunlight. It typically consists of a sensor that absorbs solar energy	
	and generates an electrical signal proportional to the received	
	radiation.	
	• Sunshine Recorder: Determines the duration of sunlight exposure	
	at a particular location using a glass sphere that focuses sunlight	
	on a strip of photosensitive paper.	
	Engage les mensie groupe to construct instruments to measure	
	elements of elimete	
	elements of climate.	
	Assessment	
	What instrument is commonly used to measure air temperature?	
	Name a device used to measure the amount of rainfall in a	
	specific area.	
	How is humidity typically measured?	
	Which instrument is used to determine wind speed?	
	What is the purpose of a barometer in weather measurements?	
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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Performance Indic Learners can sketch maps	ator: n maps and interp	ret lar	dscapes from	Core CP 5.	Competencies: I: CC 8.1: CC 8.1: CC	9.1: CI	P 5.2: CC
References: Social	Studies Curriculu	n Pg.	49				
Keywords:							
						D	
Phase/Duration	Learners Activit	es	on a natura ta cha		bysical foatures of	Keso	urces
STARTER	Engage learners the school comp compound. They share their	to go bound. • maps	on a nature to obse . Let them sketch a with the class for f	erve p map o furthe	or discussion.		
	Share performan	ice ind	in groups to identif	ers.	doccribo the	Dictu	record
LEARNING	 Engage learners in their groups to identify and describe the climate zones in Ghana. Ghana, located in West Africa, has a diverse climate with distinct climatic zones. Here are the main climatic zones found in Ghana: I. Tropical Rainforest Zone: Location: The southernmost part of Ghana, including the coastal areas and the high rainfall regions. Climate: Characterized by high temperatures and abundant rainfall throughout the year, with no distinct dry season. Average annual rainfall exceeds 1,500 mm (59 inches). Vegetation: Dense tropical rainforests with a rich variety of plant and animal species. 						
	 Coastal Savan Location: The the north. Climate: Feat from April to September. T lower rainfall Vegetation: N patches of fo Forest Transit Location: Loca Savanna zone Climate: Expectimate and t 	nah Z coast ures a Octob The dry and h lixed v rest. cion Z ated b e, spar erience he drie	one: al belt stretching fron wet and dry season. er, with peak rainfall season lasts from N igher temperatures. regetation of grasslan one: etween the rainforest nning parts of central a transition betwee er savanna climate. R	n the i The w betwe lovem d, shri d, shri t zone Ghan en the cainfal	rainforest zone to vet season occurs een June and ber to March, with ubs, and isolated and the Guinea a. wetter rainforest is slightly lower		

than in the rainforest zone, and there is a distinct wet and dry season.	
• Vegetation: Mosaic of forests, grasslands, and farmland.	
 Guinea Savanna Zone: Location: Covers the northern part of Ghana, including the northern regions. Climate: Exhibits a pronounced wet and dry season. The wet season occurs from April to October, with peak rainfall between June and September. The dry season, known as Harmattan, extends from November to March and is characterized by hot and dry winds from the Sahara Desert. Vegetation: Predominantly open grasslands with scattered trees, especially along watercourses. Sudan Savanna Zone: Location: The northernmost part of Ghana, bordering Burkina Faso. Climate: Features a more pronounced dry season compared to the Guinea Savanna zone. The wet season lasts from May to October, with peak rainfall between June and September. The dry season, marked by the Harmattan winds, extends from November to April. Vegetation: Dominated by grasslands with few trees and shrubs. 	
Sketch the map of Ghana and indicate the different climatic zones.	
 <u>Assessment</u> Which part of Ghana is characterized by dense tropical rainforests? What are the two main seasons in the Coastal Savannah Zone of Ghana? Which climatic zone experiences a transition between the rainforest and savanna climates? What is the dry season in the Guinea Savanna Zone of Ghana called? Which climatic zone in Ghana is known for its hot and dry Harmattan winds? Which part of Ghana is characterized by open grasslands and scattered trees? In which climatic zone is the Harmattan season more pronounced? What are the typical months of the wet season in the Sudan Savanna Zone of Ghana? How does the climate in the Forest Transition Zone differ from that of the rainforest zone? 	
vegetation found in different regions?	

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.	