Fayol Inc. 0547824419

## TERM THREE WEEKLY LESSON NOTES WEEK 11

Week Ending: 25 <sup>™</sup> NC	V, 2022	DAY:		Sub	<b>ject:</b> Science		
Duration: 100mins			Strand: Humans & The Environment		onment		
Class: B7 Class Size:			Sub Strand: Climate Change & Green Economy		& Green		
Content Standard: B7.5.4.1 Demonstrate understanding of sustainable energy choices and their impact on the environment		sustainable energy o				Lesson:	
Performance Indicator: Learners can search for information on ways sust and scientific ideas are used to protect the environment.			Ο,	es	Core Competer DL 5.3: Cl 6.8: DL		5.6:
References: Science Cu	urriculum F	Pg. 48					
Phase/Duration PHASE I: <b>STARTER</b>	Learners Activities Review the previous lesson with learners through questions and answers.  Share learning indicators and introduce the lesson.			Resour	rces		
PHASE 2: NEW LEARNING	Drill learners on the correct pronunciation and meaning of key terms.  Weather: Weather describes the condition of the atmosphere over a short period of time. It describes the state of the atmosphere for example the degree to which it is hot or cold, wet or dry, calm or stormy, clear or cloudy.  Climate: Climate is the condition of the atmosphere at a particular location over a long period of time. It is the long-term summation of the atmospheric elements and their variations.  Climate change: The term climate change refers to significant changes in average weather patterns (i.e. precipitation, temperature, wind and other indicators) that persist within a climate system, caused directly or indirectly by human activities.  In groups, let learners discuss the effects of climate change on the Environment.  1. Direct physical harm on humans 2. Crop failure and farmland loss 3. Sea level rises and coastal submersion 4. Freshwater loss and desertification  Brainstorm learners for the meaning of greenhouse effect. The greenhouse effect is a natural process that warms the Earth's surface. The major greenhouse gases are i. water vapor (H2O) iii. carbon dioxide (CO2) iii. methane (CH4) iv. chlorofluorocarbons(CFCs) v. Hydrogenated chlorofluorocarbons (HCFCs) vi. Tropospheric ozone (O3) vii. Dinitrogen oxide (N2O).						

	Have learners research on the meaning of green economy.  Green economy is one whose growth of income and jobs is driven by investments that reduce carbon emissions and pollution, enhance efficiency and sustain biodiversity and ecosystem service.	
	Guide learners to discuss the advantages of green economy.  I. Green economy potentially works towards decreasing environmental pollution, and thus improves the quality of soil, water and air and also protects environmental well-being.	
	2. Global warming, loss of biodiversity, deforestation, desertification, resource depletion can gradually be obstructed by implementing green economy which will automatically save the earth and its animals from destruction as far as possible.	
	Economic growth is also enhanced due to the establishment of new markets for biofuels and renewable energy resources.      Establishment of new markets have potential to support international	
	advantages when these new markets will invite funds through exports and also increase domestic sales.  5. Agricultural industries will be able to achieve a dignified place due to the emphasis on green technologies.	
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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Class: B7	Class Size:			<b>Sub Strand:</b> Climate Economy		Change & Green	
Content Standard: B7.5.4.1 Demonstrate understanding of sustainable energy choices and their impact on the environment		Indicator: B7.5.4.1.1 Search for information on ways sustainable energy choices and scientific ideased to protect the environment.			eas are	Lesson: 2 of 2	
Performance Indicator Learners can search for and scientific ideas are	informati	<del></del>	oices Competen DL 5.3: CI 6.8: DL			5.6:	
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Phase/Duration PHASE I: <b>STARTER</b>	Learners Activities  Review the previous lesson with learners through questions and answers.				Resources		
PHASE 2: <b>NEW LEARNING</b>	Share learning indicators and introduce the lesson.  Describe how people use sustainable energy choices and scientific ideas to protect the environment.  Sustainable Energy: Energy is sustainable if it meets the need of the present without compromising the ability of the future generation to meet their own needs.  Guide learners to identify sustainable energy choices as; solar energy, wind energy, hydropower, geothermal energy and ocean energy.  I. Solar Energy: Solar energy is derived by capturing radiant energy from the sun and convert it into electricity. Photovoltaic (PV) systems can convert direct sunlight into electricity through the use of solar cells.  Benefits: One of the benefits of solar energy is that sunlight is always available. It improves public health and environmental conditions because there no release of greenhouse gases in the environment.  Wind Energy: Wind farms capture the energy of the wind by using turbines and converting it into electricity.						
	pollute the 3. Geother beneath th 4. Ocean L tapped can 5. Biomass is 6. Hydroel moving wa In groups 1. Sustaina	air like other form mal Energy: Geoth he earth. Energy: The waves in generate a lot of a Energy: Bioenergy organic matter the ectric Power: There ter when captured s, let learners di ble energy fights a	In energy source which ments of energy.  For tides of the ocean have a renergy to power millions or is a renewable energy do not comes from living planties are the rivers or waterfall that can turn turbines to iscuss the need for Sugainst climate change.  For deplete or run out.	e gred of how erived ts and alls who	n energy from  at power which can mes. from biomass. I organisms. nose energy of the rate power.		

	3. Sustainable energy does not harm the environment and can help improve public health.  4. Renewable energy resources emit little or no greenhouse gases, which is better for the environment and our health.  5. Sustainable energy can reduce or eliminate our reliance on fossil fuels.  Guide learners to discuss the Impact of sustainable energy choices
	on the environment.
	Assessment Explain the following terms:
	Sustainable energy choice
	Greenhouse effects
	Climate change
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.