Fayol Inc. 0547824419

## SECOND TERM WEEKLY LESSON NOTES WEEK 10

Week Ending:		DAY:			Subject: Science			
Duration: 100mins					Strand: Humans & the Environment			
Class: B9 Class		Class Size	e:		Sub Strand: Waste management			
Content Standard:		Indicator:					Lesson:	
B9.5.1.1 Demonstrate an understanding		ng of the	· · · · · · · · · · · · · · · · · · ·		he scientific methods used			
scientific ways of waste management			in waste n			I of 2		
Performance Indicator:				Core Comp	oetencies: king and Problem Solving	- (CP)		
Learners can identify	is such as recycling Communic			ition and Collaboration (CC) Digital Literacy				
and composting used	ment I			ity and Innovation				
References: Science	Curriculum Pg. 10	09						
Key words: Waste m	nanagement, Recyc	cling, Comp	osting, Scie	ntific method	ls			
Phase/Duration	Learners Activities Resources				urces			
PHASE I:	Begin the lesson	with a brie	ef discussion	about waste	management.			
STARTER								
	Ask learners what comes to mind when they think about waste and							
	how it is managed in their school or community. Write down their							
	responses on the board.							
	Share learning indicators and introduce the lesson.							
PHASE 2: <b>NEW</b>	Define key terms: waste management, recycling, composting.  Visual aids or					al aids or		
LEARNING	Briefly explain the importance of effective waste management for diagrams depicting				ams depicting			
	environmental sustainability. waste management				•			
	methods							
	Introduce the focus of the lesson: identifying scientific methods in waste Real-life examples					•		
	management and understanding the scientific principles behind them. or case studies of							
	waste management							
	Divide the class into small groups. practices							
	Provide each group with information about specific waste management							
	methods (recycling, composting, etc.).							
	meanous (recycling, composting, etc.).							
	Instruct learners to identify the scientific principles behind each method							
	and how they contribute to waste reduction.							
	Each group presents their findings to the class, fostering a collective							
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	I minder standing of	nderstanding of scientific methods in waste management.						

	Engage the class in a discussion about the scientific principles behind various waste management methods.	
	Discuss topics such as decomposition, material transformation, and resource recovery.	
	Use visual aids to enhance understanding and clarify any misconceptions.	
	Assessment	
	I. What scientific principle allows plastic bottles to be recycled into new clothing?	
	How does adding water and turning compost piles help accelerate decomposition?	
	3. Why is it important to properly sort different materials during recycling?	
	4. What is one way your school could reduce the amount of waste it generates?	
PHASE 3:	Use peer discussion and effective questioning to find out from learners	
REFLECTION	what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending:	DAY:				Subject: Science		
Duration: 100mins					Strand: Humans & the Environment		
Class Siz		Class Size:			Sub Strand: Waste management		
Content Standard: B9.5.1.2. Demonstrate an understanding of the impact of waste on an environment, innovative waste management technologies for sustainable development and waste management practices in Ghana				2.1 Describe innovative ways of management for sustainable			Lesson:
Performance Indicator:  Learners can explain the impact of waste on the environm identify innovative ways to manage waste for sustainable development  References: Science Curriculum Pg. 109			nent,	Criti Com	re Competencies:  itical Thinking and Problem Solving (CP),  mmunication and Collaboration (CC) Digital  eracy (DL), Creativity and Innovation		
Key words: Plastic po	ollution, Upcycling	g, Waste-to-energy					
Phase/Duration PHASE I: STARTER	Learners Activities  Begin the lesson with a thought-provoking question: "What do you think happens to the waste produced in your community, and how might it affect the environment?"  Allow learners to share their thoughts and ideas. Write down key points on the board.				Reso	urces	
PHASE 2: <b>NEW LEARNING</b>	Provide an overvaddressing waste  Discuss the enviplastic pollution, contamination.  Use visual aids to disposal.  Encourage learned ecosystems and	riew of the lesson's objectives and the importance of issues for sustainable development.  ronmental impact of different types of waste, such as air pollution from burning waste, and soil  o illustrate the consequences of improper waste  ers to think critically about the long-term effects on			Visual aids or infographics on waste impact  Examples of innovative waste management practices  Information on types of waste in Ghana		

	Provide examples of innovative waste management practices (e.g.,	
	upcycling, waste-to-energy projects, community recycling initiatives).	
	Instruct each group to research and present an innovative method, discussing its environmental benefits and challenges.	
	Assign each student or group a specific type of waste commonly produced in Ghana (e.g., plastic waste, electronic waste).	
	Learners research the characteristics, sources, and impacts of their assigned waste type.	
	Present findings to the class, fostering a comprehensive understanding of waste in the local context.	
	Assessment  I. How does plastic waste pollution in Ghana's water bodies affect	
	marine life?	
	What environmental benefit does converting organic waste into biogas offer?	
	3. Briefly explain why e-waste is a particular challenge for Ghana's waste management system.	
	4. What is one action individuals can take in their communities to improve waste management practices?	
PHASE 3:	Use peer discussion and effective questioning to find out from learners	
REFLECTION	what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	