FAYOL INC. 0547824419

FIRST TERM WEEKLY LESSON NOTES WEEK 5

Week Ending: 03-11-2023 Day:			Subject: Career Technology			(HE)	
Duration: 60MINS				Strand: Health & Safety			
Class Size			Sub Strand: Environmental H		Health		
Content Standard: B9.1.3.2 Demonstrate understanding of clean energy, and Improved Cookstoves (ICS) and their accompanying fuels				licator: .1.3.2.1: Discuss what is meant by clear ergy and improved cookstoves and fuel			Lesson: 2 of 2
Performance Indicator: Learners can comprehend what is meant by improved cookstoves and cleaner fuels, and recognize their advantages. Core Compete CP 6.5: CI 5.4: 0							
Reference: Career T	echnology	Curriculum	Pg. 82				
New words: Clean E	nergy, Rer	newable, Co	okstoves, Em	issions			
DI /D		A					
Phase/Duration PHASE I:		Activities	ido by sido: a	no showing to	aditional open	Keso	urces
STARTER	Display two images side by side: one showing traditional open- fire cooking and the other depicting solar panels or wind turbines.						
	Ask learners: "How do these images relate to energy? What might be the differences in the type of energy they represent?"						
	Share per	rformance ir	ndicators witl	n learners.			
PHASE 2: NEW LEARNING	Guide learners to explain what is meant by clean energy. E.g., It is energy produced through means that do not pollute the atmosphere. Pictures cooksto						
	Have lead	Have learners identify improved cookstoves and fuels					
	Engage learners to watch pictures and videos on improved cookstoves and fuels and traditional cookstoves and fuels and make comparison of them.						
	Note: Visit the website https://www.ghacco.org for more information.						
	Lead learners to discuss what happens when clean energy is used.						
	,		_	off less emissions of three-s			
	various ir other sou E.g., Gyap	mproved codurces.	okstoves and k, gas stoves,	nd present in confuels using IC			

	Assessment How does clean energy differ from traditional energy sources? Why is there a push towards using cleaner fuels in cookstoves? Name one type of improved cookstove and its advantage. What is one significant benefit of transitioning to clean energy?	
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: 03	Day: Subj		Subject	ect: Career Technology (HE)			
Duration: 60MINS				Strand:	Strand: Health & Safety		
Class: B9 Class Siz		Class Size	e:	Sub Strand: Environmental Health			
Content Standard: B9.1.3.2 Demonstrate understanding of clean energy, and Improved Cookstoves (ICS) and their accompanying fuels		ean B	Indicator: B9.1.3.2.2: Discuss the benefits of improved cookstoves and fuels.			Lesson: 2 of 2	
Performance Inc Learners can und and recognize the	lerstand the a	_	_	•	toves and cleaner fuels r uses.		Competencies CI 5.4: CI 5.2: (
Reference: Care	er Technolog	y Curricului	m Pg. 83				
New words: Coo	okstoves, Effic	iency, Emiss	sions, Sus	tainable			
		,					
Phase/Duration	Learners A						Resources
PHASE I: STARTER	Display pict	play pictures of traditional open-fire cooking methods and improved okstoves.					
	methods? V	Vhy might s	someone	•	etween these cooking ethod over the other?"		
PHASE 2:					ves and fuels		Pictures of
NEW	Brainstorm the benefits of improved cookstoves and fuels. Divide learners into small groups and provide each group with a chart paper Cookstoves						
LEARNING	and markers.						
	cookstoves	and cleane ciency, They	r fuels. Be	enefits might in	nefits of using improved nclude health, environme he cook and people arou		
		J		presents their lowing stoves.	r list to the class.		
				fuels • traditio			
		e type	Descrip		Uses		
		ved Cookst	toves				
	Rocke	et Stoves	complete	with an vertical that ensures e combustion reduces the of smoke sions	They are primarily used for boiling and simmering. Can be use with a variety of biomass fuels including wood and agricultural residues.	d	
	Gasifi	er Stoves	•	oves use a	Cooking various dishes especially in regions	5,	

	gosification to	whom wood or
	gasification to	where wood or
	convert solid	biomass is the primary
	biomass into a	fuel source.
	gaseous form before	
	combustion. This	
	process reduces	
	harmful emissions.	
Solar Cookers		Baking, boiling, and
Solar Cookers	Uses the sun's energy	9
	to cook food. It can	simmering food without
	either concentrate	the need for fuel.
	sunlight to produce	Suitable for sunny
	heat or trap sunlight	regions.
	within an insulated	_
	box to cook.	
LPG (Liquefied	These stoves run on	Frying, boiling,
Petroleum	propane or butane.	simmering, and baking.
Gas) Stoves	They produce a clean	They're used worldwide
	flame with minimal	for a range of cooking
	emissions.	needs and are
		particularly sought after
		for their clean and
		efficient burn.
Traditional Stove	l es	omeren summ
Open Hearth	Essentially a	Basic cooking tasks but
or Indoor	contained open fire	comes with significant
Open Fire	inside a dwelling,	health risks due to
Open rire	_	
	often without proper	indoor air pollution.
	ventilation.	
Charcoal	Made of metal or	Frying, boiling, and
Stoves	clay, these stoves	other basic cooking
	burn charcoal as fuel.	tasks. Common in
	While they are more	urban areas where
	efficient than open	wood is less available
	fires, they still emit	but charcoal can be
	harmful fumes.	
Clay an Mard	1	purchased.
Clay or Mud	Made from local	Boiling, simmering, and
Stoves	materials, these are	other basic cooking
	sometimes an	tasks. Common in rural
	upgrade from the	parts of many
	three-stone fire but	developing countries.
	still emit a lot of	
	smoke.	
Three-Stone	As the name	General cooking needs.
Fire	suggests, it's a basic	Predominantly used in
1110		rural areas due to its
	setup with three	
	stones placed in a	simplicity.
	triangle, supporting a	
	1 4	i
	pot, with an open fire	
	beneath.	

Use real cookstoves, models, or pictures to show how each stove operates.

	Highlight the specific benefits of each stove type. If possible, demonstrate the difference in emissions or fuel efficiency between traditional methods and the improved stoves.	
	In groups, plan and organize a campaign to educate the school and the community on the use and benefits of improved cookstoves.	
	Assessment	
	I. Why are improved cookstoves better for our health compared to	
	traditional cooking methods?	
	2. How do improved cookstoves benefit the environment?	
	3. Name one type of improved cookstoves you learned about today.	
	4. How can using cleaner fuels be more cost-effective in the long run?	
PHASE 3:	Use peer discussion and effective questioning to find out from learners what	
REFLECTION	they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	
	Emphasize the importance of transitioning to improved cookstoves and cleaner fuels, not just for individual health and savings but also for the broader environmental and societal benefits.	