Fayol Inc. 0547824419

# SECOND TERM WEEKLY LESSON NOTES

# WEEK 6

<b>Date:</b> 17 <sup>th</sup> JUNE, 2022		DAY:		Subject: Science		
Duration:				Strand: Systems		
Class: B7 Class Size			Sub Strand: Farming	Systems		
Content Standard: B7.3.4.1 Demonstrate an understanding of the differences among the various farming systems: Land Rotation, Crop Rotation, Mixed Cropping, Mixed Farming, and Organic Farming		ystems: Land	the differences among the		Lesson:	
Performance Indicator: Learners can discuss the differences among the various systems			s farming	Core Competencies CC 9.6: CC 8.1: CC 8.4	: 4: DL 5.5: DL 5.6: CP 5.1:	
References: Science Cur	riculum Pg.	23-24				
Phase/Dune:	1	A asiv (is:			Description	
Phase/Duration PHASE I: <b>STARTER</b>		Activities		was find out what	Resources	
PHASE I: STARTER	Using questions and answers, review to find out what learners already know about farming system.  Share learning indicators and introduce the lesson.					
PHASE 2: NEW LEARNING	Farming symproduce creaters practiced Example: Shifting cut Land Rotal Crop Rotal Mixed Crop Rotal Mixed Far Organic For Guide lead particular Example:  Land and Climate  The type  Availab  Availab	Brainstorm learners for the meaning of farming systems. Farming system refers to all the different methods which are used to produce crops and or animal.  Learners to mention some farming methods being practiced in their community. Example: Shifting cultivation Land Rotation Crop Rotation Mixed Cropping Mixed Farming Organic Farming.  Guide learners to discuss the factors that determine a particular farming method. Example:  Land availability and soil type Climate pattern The type of tools available (e.g. cutlass, hoe, tractors, etc)			Pictures and Charts	

Guide learners to discuss the shifting cultivation method of farming and its characteristics.

# Shifting cultivation.

This is a system of farming in which the farmer cultivates a piece of land for some time, the land when it loses its fertility together with his settlement. The farmer may come back to cultivate the old land later.



Learners assess the advantages and disadvantages of shifting cultivation.

# Advantages of Shifting cultivation

- 1. Land previously used is allowed to fallow so as regain its fertility.
- 2. Farmer spends little or nothing in improving the soil fertility.
- 3. The farmer could grow crops on any new land he moves to.

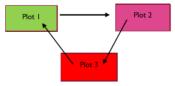
# Disadvantages of Shifting cultivation

- 1. Due to increasing population and resultant pressure on land, this system is difficult to practice.
- 2. The would always have to move or relocate his household.
- 3. This type of farming system is expensive because of the constant clearing of new land.

Again, learners discuss the land rotation method of farming and its characteristics.

### Land rotation.

This is a system of farming in which a farmer cultivates a piece of land for some time and leaves it to clear a new land when the old land becomes less fertile. The farmer moves to the new land without moving his settlement.



### <u>Assessment</u>

- I. What is a farming system?
- 2. State four factors that determines a particular farming method.
- 3. Describe briefly any two farming methods and state two advantages and two disadvantages of it.

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> 17 <sup>th</sup> JUNE, 2022		DAY:		Subject: Science			
Duration:					Strand: Systems		
Class: B7	Class Size:				Sub St	Sub Strand: Farming Systems	
Content Standard: B7.3.4.1 Demonstrate an understanding of the differences among the various farming systems: Land Rotation, Crop Rotation, Mixed Cropping, Mixed Farming, and Organic Farming				.4.1.2 Categorize different		Lesson: 2 of 2	
Performance Indicator: Learners can categorize different farming system			ıs			Competencies CC 8.1: CC 8.4	: 4: DL 5.5: DL 5.6: CP
References: Science Cu	rriculum P	g. 23-24					
Phase/Duration	Loomers	A ctivities					Posoureos
Phase/Duration PHASE I: <b>STARTER</b>	Learners A		CIA/ONE NO:	iow los	rnors	adoretanding in	Resources
PHASE I: STARTER	Using questions and answers, review learners understanding in the previous lesson.  Share learning indicators and introduce the lesson.						
PHASE 2: NEW LEARNING	Revise wir rotation r	th learners or methods of far rners to idented and and expression the same of	the shifting in the shifting.  Lify and detection in sequence in s	fine other a series enced enced enced series enced en	of dissimilations.  of of crophoted	nd land s of farming ilar or different o rotation. os v each other, etc. eguminous plants	Pictures and Charts
		ferent crops are arners to diffe tion.		etweer	n land ro	otation and	

#### Differences between Land rotation and Crop rotation.

Land rotation	Crop rotation
1.Crops are grown in a random	1.Crops are grown in a definite
manner	order or cycle.
	2. crops are cultivated on the
different pieces of land.	same piece of land.

# Learners to discuss the characteristics of the mixed farming and mixed cropping methods of farming in Ghana.

Mixed cropping, also known as inter-cropping or co-cultivation, is a type of farming that involves planting two or more of plants(crops) simultaneously in the same field.

### Advantages of mixed cropping

- 1. Different crops may be harvested at different times. This helps the farmer to get food over a long period.
- 2. Since different crops are grown, pests and diseases may not spread easily.
- 3. Where cover crops or legumes are grown, they soil fertility.

# Disadvantages of mixed cropping.

- 1. The crops may compete for nutrients, water, light and space for survival.
- 2. Different fertilizers may be needed in some cases, for different crops. This could increase the cost of production.
- 3. Mechanization is difficult. 4. Improper spacing may lead to shading of other crops.

### Mixed farming

Mixed farming is the cultivation of crops along with rearing of animals for meat or milk on the same farm.

# Advantages of mixed farming.

- 1. The is regular supply of food for the farmer and his family.
- 2. The fertility of the soil is improved by the use of farm yard manure.
- 3. There is no need for the farmer to shift to a new piece of land since there is less likelihood of low soil fertility.

### Disadvantages of mixed farming.

- 1. The farmer may have divided attention for keeping both crops and animals.
- 2. It requires a lot of skills in managing crops and animals.
- 3. Animals usually destroy crops when they are not well confined.

Have learners compare and contrast the characteristics of mixed farming and mixed cropping methods of farming.

Difference between mixed cropping and mixed farming

Difference between mixed cropping and mixed farming.					
Mixed cropping	Mixed farming				
Two or more different crops are	Crops and animals are raised				
grown the same piece of land.	on the same piece of land.				

# **Assessment**

I. You are given the following crops; cassava, sorghum, garden eggs, and soya beans. Use the principles of crop rotation to draw-up a four year rotation plan.

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.	