

EaD Comprehensive Lesson Plans



or



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BASIC 7

WEEKLY LESSON PLAN – WEEK 5

Strand:	Systems		Sub-Strand:	The Farming System	
Content Standard:	B8.3.4.1Demonstrate understanding of the different crop, animal and land combinations under various farming systems				
Indicator (s)	B8.3.4.1.1 Identify and describe the types of crops, animals and land combinations for the different farming systems. B8.3.4.1.2 Discuss the usefulness of the different crops and animals involved in the different farming systems.		Performance Indicator: Learners can identify the different farming systems		
Week Ending	05-05-2023				
Class	B.S.7	Class Size:		Duration:	
Subject	Science				
Reference	Science Curriculum, Teachers Resource Pack, Learners Resource Pack.				
Teaching / Learning Resources	Pictures, Video, Charts, Power point Presentation.		Core Competencies:	<ul style="list-style-type: none">Digital LiteracyCritical Thinking and Problem SolvingCommunication and Collaboration.	
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN			PHASE 3: REFLECTION

<p>MONDAY</p> <p>01-05-2023</p>	<p>Discuss the meaning of Farming system with the Learners.</p>	<ol style="list-style-type: none"> 1. Assist Learners to identify the various types of Farming system with the Learners. 2. Learners in small groups to discuss about the types of crops, animals and land combinations in the different farming systems. 3. Each group is to report on the group's discussions. 4. Individual Learners brainstorm to mention examples of crops planted and animals reared in their community. <p>Farming System;</p> <p>A farming system is a mix of farm enterprises such as crop, livestock, aquaculture, agroforestry and fruit crops to which farm family allocates its resources in order to efficiently manage the existing environment for the attainment of the family goal.</p> <p>Types of Farming Systems in Ghana;</p> <ul style="list-style-type: none"> • Arable farming. • mixed farming. • Subsistence cultivation. • Shifting Cultivation. • plantation farming. • Pastoral/Livestock cultivating. • nomadic cultivating. <div> </div> <div> </div>	<p>Reflect on the types of Farming System practiced in their Community.</p> <p>Exercise;</p> <ol style="list-style-type: none"> 1. What is Farming System? 2. Explain 4 types of Farming System
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THURSDAY**04-05-2023**

Review Learners knowledge on the previous lesson.

1. Show Learners pictures and video displaying the various farming systems.
2. Assist Learners to explain 5 advantages and disadvantages of the various types of Farming System.
3. Learners in small groups to discuss and compare the differences between the various types of Farming System.

Mixed cropping

Advantages	Disadvantages
Soil nutrient availability-each species may have different strategies to mobilize nutrients	Grow rates and optimal harvest date can differ
Pathogen and pest susceptibility is different	Specialist equipment may be needed
Legume can supply N	Competition for resources
Stem support in canopy	One species may host pathogens
Root depth for water access and improved soil structure	Monitoring more than one species at a time to keep up with needs

Advantages of Shifting Cultivation

- The crops' growth will start fast in this Cultivation, and sometimes it will get ready for harvest early.
- And there is no danger or fear for the crop-destroying animals and flood in it.
- In this farming, the soil bone diseases are also reduced significantly.
- After slash and burn, it is easy to grow crops.

Shifting Cultivation Disadvantages

- There is a loss of 22% of the top of the soil, which is full of fertility in Shifting agriculture. Therefore, it causes the loss of economic rate of people.
- As it has raw sewage and oil residue, water pollution can easily occur in it.
- The Shifting cultivation process also restricts the land-use intensity.
- Loss of biodiversity is also an impact of shifting agriculture, and it is uneconomical.

Advantages of Intensive Farming

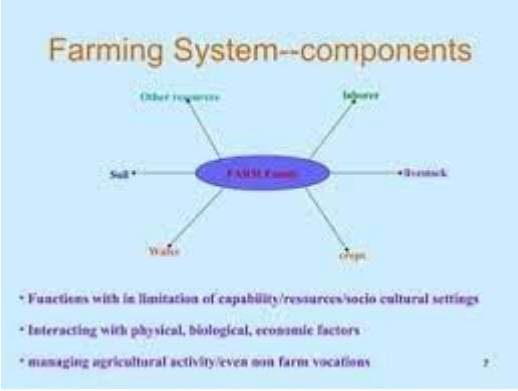
- One of the major advantages of this farming technique is that the crop yield is high.
- It helps the farmer to easily supervise and monitor the land and protect his livestock from being hurt or hounded by dangerous wild animals.

Through questions and answers, conclude the lesson.

Exercise

1. State 5 advantages of the types of Farming System.
2. Write 5 disadvantages of the types of Farming System.

		<ul style="list-style-type: none">• With the introduction of intensive farming, farm produce, such as vegetables, fruits, and poultry products have become less expensive. It also aids in solving the worldwide hunger problems to a great extent. This means that common people can now afford a balanced and nutritious diet.• The introduction of intensive farming allows the space, equipment, and other requirements for farming to be less and more economical.• Another advantage is that large productivity of food is possible with less amount of land. <p>Disadvantages of Intensive Farming</p> <ol style="list-style-type: none">1. Intensive farming involves the use of various kinds of chemical fertilizers, pesticides, and insecticides.2. It can lead to overcrowding due to the fact that animals are kept in holding facilities which can lead to pollution and break out of diseases and infection.3. The use of chemical fertilizers contaminates soil and water bodies such as lakes and rivers.4. Heavy use of pesticides and chemical fertilizers can also affect the workers (who spray the pesticides) and the people residing nearby.	
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<p>FRIDAY</p> <p>05-05-2023</p>	<p>Learners brainstorm to identify the components of Farming System in Ghana.</p>	<ol style="list-style-type: none"> 1. Discuss with Learners on how different components of farming systems contribute to each other. 2. Assist Learners to explain the concept of sustainability in Farming system. 3. Using a Power Point Presentation, explain to Learners about the contribution of crops and animals towards the sustainability of each farming system. <p>Components of Farming System;</p> <ul style="list-style-type: none"> • Soil • Water • Crops • Livestock • Labour • Capital • energy and other resources  <p>The concept of a sustainable farming system;</p> <p>The concept of a sustainable farming system refers to the capacity of agriculture over time to contribute to overall welfare by providing sufficient food and other goods and services in ways that are economically efficient and profitable, socially responsible, while also improving environmental quality.</p>	<p>Through questions and answers, conclude the lesson.</p> <p>Exercise;</p> <ol style="list-style-type: none"> 1. What is sustainability in cropping system? 2. Explain 4 roles of livestock in sustainable agriculture.
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School:

District: