

EaD Comprehensive Lesson Plans



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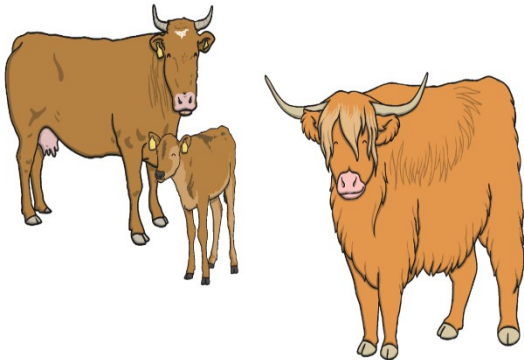
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BASIC 8

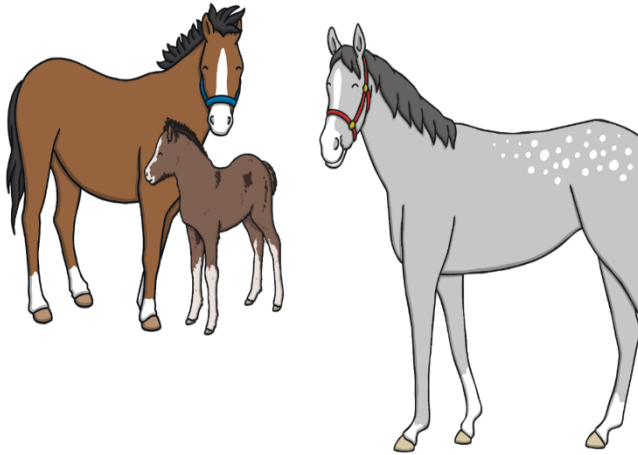
WEEKLY LESSON PLAN – WEEK 4

Strand:	Systems		Sub-Strand:		Farming Systems	
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 describe the crop and animal farming systems practiced in their Community.		
Week Ending	21-07-2023					
Class	B.S.8	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 Solving Communication and Collaboration.	
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN			PHASE 3: REFLECTION	
MONDAY	Learners brainstorm to explain what a crop is? Show Learners samples of crops.	<div>1. Assist Learners to identify different types of crops.</div> <div>2. Using a Presentation, explain 4 different farming systems in crop production.</div> <div>3. Learners brainstorm to identify examples of farming systems in Ghana.</div> <div>4. Discuss with Learners on the advantages and disadvantages of the various farming systems.</div> <div>Types Of Crops Based On Their Uses</div> <div>Rather than being a precise scientific classification of plants, this list of crop types describes their uses and economic value. Based on the intended use, there are 6 types of crops: food, forage, fiber, oil, ornamental, and industrial.</div> <div>5. Food Crops</div> <div>Food plants were historically the first to be harvested and cultivated. They are grown for human</div>			Learners in small groups to discuss and report to the class on strategies for the various farming systems. Exercise; <div>1. State 4 types of crops?</div> <div>2. Explain 4 different farming systems in crop production.</div>	

		<p>consumption. Food plants, particularly grains, are strategically important. At the same time, farmers should keep in mind that while industrial food plant cultivation has many benefits, it can also have negative environmental consequences, such as greenhouse gas (GHG) emissions.</p> <p>The following are the types of food crops.</p> <p>Cereals: wheat, rice, barley, millet, oats, rye, <u>sorghum</u>, and others</p> <p>Fruits: <i>apples and pears, citrus, stone fruits, tropical and exotic fruits, berries, and other types</i>. Fruits contain a lot of dietary fiber, vitamins, minerals, and antioxidants, such as flavonoids, which promote good health.</p> <p>Vegetables are high in water content and low in calories. They are also rich in dietary fiber, antioxidants, minerals, and vitamins (especially A and C). There are several types of vegetable crops:</p> <ul style="list-style-type: none">6. root vegetables: <i>beets, carrots, sweet potatoes, turnips;</i>7. tubers: <i>potatoes, yams;</i>8. stem vegetables: <i>asparagus, kohlrabi, celery;</i>9. leafy green: <i>lettuce, spinach, silverbeet;</i>10. allium or bulb vegetables: <i>garlic, leeks, onions, shallots;</i>11. head or flower vegetables: <i>artichokes, cabbage, cauliflower;</i>12. cucumber family vegetables: <i>pumpkin, cucumber, zucchini.</i> <p>13. Forage Crops</p> <p>Forage, aka feed, plants contain nutrients that animals require for development. They are grown for livestock consumption and are essential in <u>pasture management</u>. Some of the most crucial types of forage crops are <i>sorghum, alfalfa, barley, oats, millet, soybeans, wheat, and maize</i>.</p> <p>Forage is classified into two types based on how it is processed:</p> <ul style="list-style-type: none">14. hay is forage that has been cut, dried in the field, and stored;15. silage is produced by harvesting the plants and storing them in conditions that allow them to be split (fermented) into acids. Types of silage crops include perennial and annual grasses and legumes. <p>16. Oil Crops</p> <p>Today, the oil type of crops is the second most important determinant of the agricultural economy</p>	
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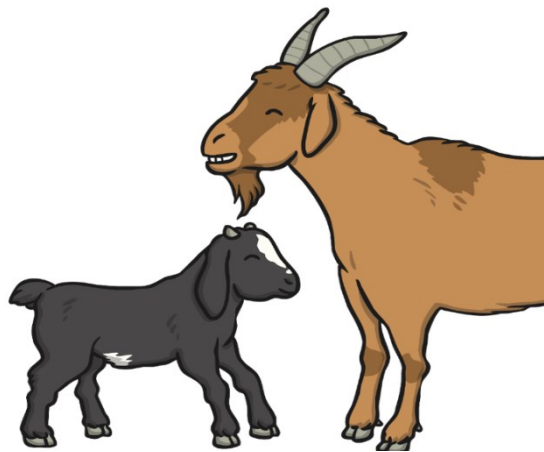
		(after cereals) and is the third largest user of farmland.	
THURSDAY	Learners brainstorm to explain Farm Animals with examples.	<ol style="list-style-type: none"> 1. Assist Learners to identify types of farming systems in Animal Production. 2. Learners in small groups to discuss about the difference between crop farming and animal farming and report to the class. 3. Discuss with Learners on examples of Animals reared under each type of farming system. <p>Farm Animals; Farm animals are animals that are raised and kept for agricultural purposes. They include cows, chickens, pigs, geese and more.</p> <p>Examples of Farm Animals. Cows</p> <p>Cows are a favourite of many kids. They live on farms and provide us with milk, which is used to make dairy products like cheese, butter, yogurt and ice cream! Cows might also be kept for their beef. Nowadays, farmers tend to either keep dairy cattle or beef cattle, rather than using the same cows for both. Female cows are the ones that give milk, male cows are called bulls, and baby cows are called calves.</p>  <p>Horses</p>	<p>Through questions and answers, conclude the lesson.</p> <p>Exercise;</p> <ol style="list-style-type: none"> 1. Explain 3 types of Farming systems in Animal Production. 2. State 2 examples each under each farming system.

Horses also live on the farm and help the farmer with their day to day work. Horses can be used to pull trailers, wagons and ploughs. People also ride horses, and they can travel great distances. A male horse is called a stallion, and a female horse is called a mare.

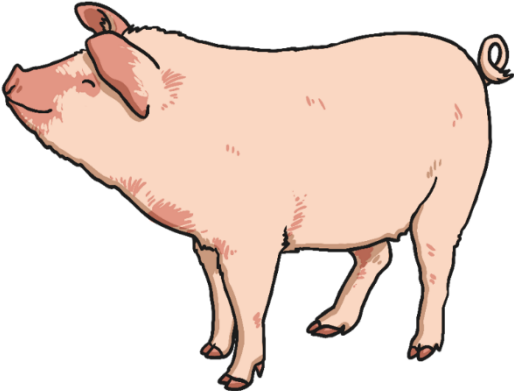


Goats

Goats are also commonly found on farms. They can be milked just like cows can, and their milk can be used to make cheese, butter, yogurt and even soap. A baby goat is cutely called a kid. They were one of the first animals to be tamed by humans, and historians think they were being herded over 9,000 years ago!



Pigs

		<p>Pigs are reared on farms for their meat – we get pork, bacon and sausages from pigs. Pigs live in a peng which is referred to as a pigsty. They're often seen rolling around in mud, because it helps them keep cool as they can't sweat like other animals. While many people see pigs as slow and lazy animals, they're actually quite quick and can run at speeds of up to 11mph, not bad! Female pigs are called sows, male pigs are called boars and baby pigs are called piglets.</p> 	
FRIDAY	Discuss the concept of “sustainable crop productions”.	<ol style="list-style-type: none"> 1. Learners brainstorm to describe the role of sustainable crop production. 2. Assist Learners to explain the various sustainable agricultural practices. 3. Discuss with Learners about the impact of sustainable Agriculture and farming practices. <p>The Role of Sustainable Crop Production;</p> <p>Sustainable crop production deals with keeping the soil alive with organic matter, integrated pest management and reduction in usage of pesticides, protecting biodiversity, ensuring food safety and food quality, improving nutrient quality, and fertilizing the soil with organic fertilizers.</p> <p>practices of sustainable agriculture</p> <ul style="list-style-type: none"> • Mulching. • Crop rotation. • Diversified farming. • Agroforestry. • No-till farming. • Contour farming. • Organic Animal raising 	Learners in small groups to discuss and report to the class on the importance of sustainable agriculture.

		Benefits of sustainable farming <ul style="list-style-type: none">• Efficiently use non-renewable resources• Protect public health• Encourage social and economic development and equity• Economic profitability• Preserve environment	
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School:

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