

EaD Comprehensive Lesson Plans



or



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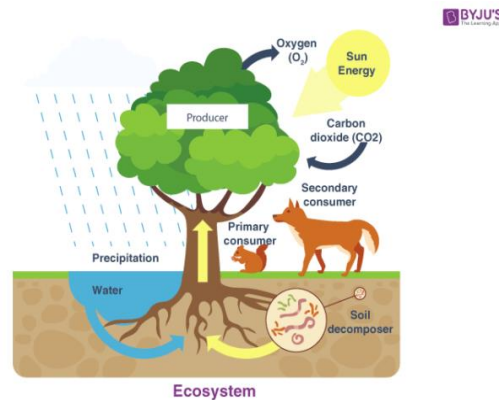
BASIC 7

WEEKLY LESSON PLAN – WEEK 3

Strand:	Systems		Sub-Strand:	The Ecosystem	
Content Standard:	B8.3.3.1 Demonstrate understanding of the interdependence of organisms in an ecosystem and their interaction				
Indicator (s)	B8.3.3.1.1 Explore the feeding relationships within an ecosystem		Performance Indicator: Learners can identify the various types of ecosystems.		
Week Ending	26-01-2024				
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 Solving Communication and Collaboration.	
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN			PHASE 3: REFLECTION
MONDAY	<p>Discuss the meanings of keywords and terminologies in the lesson.</p> <p>Keywords;</p> <ul style="list-style-type: none">Producerprimary consumersecondary consumerfood chainfood webEnergy transfer	<p>1. Learners brainstorm to explain the concept of “Ecosystem”.</p> <p>2. Using a Power Point Presentation, explain the components and parts of an Ecosystem.</p> <p>3. Assist Learners to identify the types of Ecosystem.</p> <p>4. Discuss with Learners the significance of biotic and abiotic components of Ecosystem.</p> <p>Ecosystem;</p> <p>An ecosystem is a geographic area where plants, animals, and other organisms, as well as weather and landscape, work together to form a bubble of life. Ecosystems contain biotic or living, parts, as well as abiotic factors, or nonliving parts.</p> <p>Components of Ecosystem</p> <p>Biotic components are the living things that have a direct or indirect influence on other organisms in an environment. For example plants, animals, and microorganisms and their waste materials.</p> <p>Abiotic components of an ecosystem include all chemical and physical elements i.e. non-living components. Abiotic components can vary from region to region, from one ecosystem to another. They mainly take up the role of life supporter. They determine and restrict the population growth, number, and diversity of biotic factors in an ecosystem. Hence, they are called</p>			<p>Through questions and answers, conclude the lesson.</p> <p>Exercise;</p> <ol style="list-style-type: none">What is an Ecosystem?Explain 2 types of EcosystemWrite 5 components of an Ecosystem

limiting factors.

A **terrestrial ecosystem** consists of abiotic factors like climate, type of soil or rock, altitude, temperature, nutrients, and minerals, whereas abiotic components in an aquatic ecosystem include dissolved gases, depth of water, salinity, pH of water, light intensity etc.



The significance of Biotic and Abiotic Components

Biotic components can be classified into three categories:

Producers: These include all the autotrophs. They use light energy and synthesize food on their own, e.g. plants, green algae, etc.

Consumers: These include all the heterotrophs that directly or indirectly depend on producers for their food. Consumers are further categorized as herbivores, carnivores, omnivores and parasites.

Decomposers: These include saprophytes which act on dead matter and decay them for their nutrition.

THURSDAY

Discuss with Learners about the meaning of Food web.

1. Using a chat, explain the feeding relationships in ecosystem with the Learners.
2. Assist Learners to draw a chart of the feeding relationships in an ecosystem.
3. Describe the feeding relationships and energy flow in an ecosystem.

Feeding Relationships in an Ecosystem;

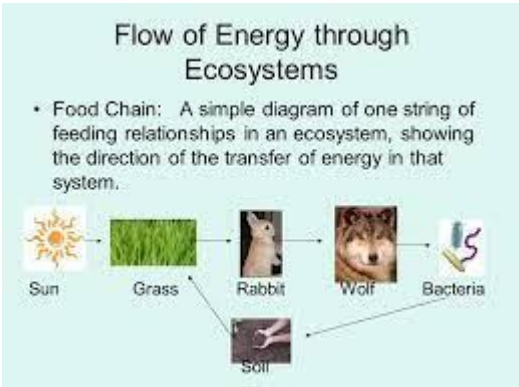
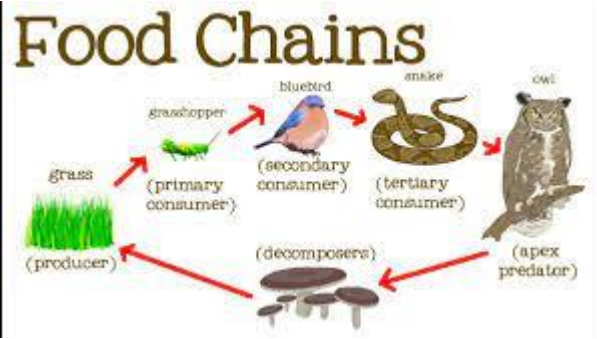


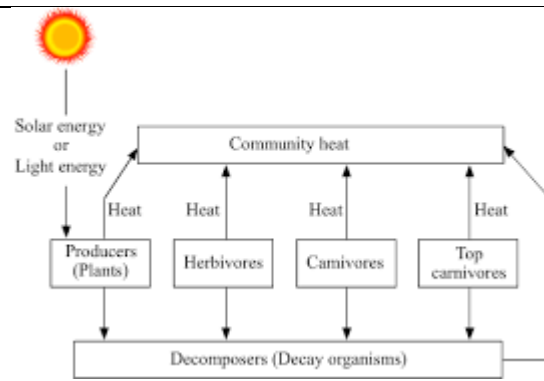
Consumers may be identified by their position in a

Summarize the lesson.

Exercise;

1. Draw a chart of the feeding relationship in an ecosystem
2. Describe the feeding relationship and energy flow in an

		<p>chain: first order (primary) consumers eat producers; second order (secondary) consumers eat primary consumers; third order (tertiary) consumers eat secondary, and so on along a chain.</p> <div><p>Flow of Energy through Ecosystems</p><ul style="list-style-type: none">Food Chain: A simple diagram of one string of feeding relationships in an ecosystem, showing the direction of the transfer of energy in that system.</div>	ecosystem.
FRIDAY	Leaners brainstorm to explain the meaning of “ Food Chain” with the Learners.	<ol style="list-style-type: none">1. Draw a chart of Food chain and explain.2. Assist Learners to draw the Food chain in an ecosystem.3. Learners brainstorm to identify the components of Food Chain.4. Discuss types of “Food Chain” with the Learners.5. Illustrate with diagram how energy from the sun flows through a food chain and food web in an ecosystem for Learners to observe. <p>Food Chain;</p> <p>A food chain refers to the order of events in an ecosystem, where one living organism eats another organism, and later that organism is consumed by another larger organism. The flow of nutrients and energy from one organism to another at different trophic levels forms a food chain.</p> <div><p>Food Chains</p></div> <p>How energy flows from the sun and through the food web;</p> <p>Primary producers use energy from the sun to produce their own food in the form of glucose, and then primary producers are eaten by primary consumers who are in turn eaten by secondary consumers, and so on, so that energy flows from one trophic level, or level of the food chain, to the next.</p>	<p>Reflect on the importance of Food chain.</p> <p>Exercise;</p> <ol style="list-style-type: none">1. What is Food Chain?2. Explain the relationship between food chain and food web.3. Write 4 importance of Food Chain with the Learners.



How energy flow through ecosystems in food chains and food webs;

Energy is transferred between organisms in food webs from producers to consumers. The energy is used by organisms to carry out complex tasks. The vast majority of energy that exists in food webs originates from the sun and is converted (transformed) into chemical energy by the process of photosynthesis in plants.

Name of Teacher:

School:

District: