EaD Comprehensive Lesson Plans



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Strand: Cycles Sub-Strand: Life cycle of organisms

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BASIC 9
WEEKLY LESSON PLAN – WEEK 5

Content Standard:	B9.2.2.1 Demonstrate an understanding of the life cycle of grasshopper and assess how their activities affect humans							
Indicator (s)		form of incomplete Performance Indicators cycle of a grasshopper.				ers ca	an describe the life	
Week Ending	11-10-2024							
Class	B.S.9	Class Size:	ize: Duration:		on:			
Subject	Science							
Reference	Science Curricul	um, Teachers Resourc	ce Pack, Lea	arners Res	ource F	Pack, Textbool	K	
Teaching / Learning Resources	Word chart, vide	o, Poster, Pictures Core Competencies:			 Critical Thinking and Problem Solving (CP), Communication and Collaboration (CC) Digital Literacy 			
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN						PHASE 3: REFLECTION
MONDAY	Assist Learners to identify the grasshopper insert by showing them a life grasshopper and pictures. Learners brainstorm to describe the grasshopper.	 Assist Learners to draw and label the parts of a grasshopper. Draw the stages of the life cycle of a grasshopper from egg through nymph to adult on the chalkboard. Explain the stages in the life cycle of a grasshopper using a Poster displaying the life cycle of grasshopper. Learners brainstorm to identify the behavior of each stage of the life cycle of a grasshopper. Thorax Antennae Thorax Antennae Head Abdomen It has mainly THREE parts i.e. the head, the thorax and the abdomen. The Head – Head contains eyes, antennae, and mouthparts The Thorax – Thorax contains two pairs of wings and 6 legs				Learners brainstorm to draw the life cycle of a grasshopper. Exercise; Explain the stage in the life cycle of a grasshopper.		

		structures. There is also a small part called pinchers used to tear off food such as grasses, leaves and cereal crops. Egg Grasshopper Life Cycle	
		Adult	
THURSDAY	Assist Learners to compare the life cycle of a grasshopper to that of a mosquito.	 Explain incomplete metamorphosis and complete metamorphosis to the Learners. Assist Learners to identify the stages involved in incomplete metamorphosis and complete metamorphosis. Discuss with the Learners about the characteristics of a grasshopper. Learners in small groups to differentiate between a Locust and a grasshopper. Characteristics of Grasshopper Grasshoppers are insects that are medium to large. The adult length depends on the species, from 1 to 7 cm. They have chewing mouthparts, two pairs of wings, one narrow and tough, the other broad and flexible, and long jumping hind legs. In having short antennas that do not reach very far back on their bodies they are different from those groups with long antennae. Usually, grasshoppers have big eyes and are colored to blend into their environment, usually a combination of brown, gray or green. The males have bright colors on their wings in some species, which they use to attract females. A few species eat toxic plants, and keep the toxins for protection in their bodies. They are colored brightly to warn predators they taste bad. Female grasshoppers are larger than males, and have pointed spots at the end of their abdomen to help them lay underground eggs. Sometimes male grasshoppers have special structures on their wings which they rub on their hind legs or rub together to make sounds. Difference Between Locust and Grasshopper 	Through questions and answers, conclude the lesson. Exercise; 1. What is the difference between Locust and a grasshoppe r? 2. State the stages involved in incomplete metamorph osis.

		Grasshoppers	Locusts	
		Structural Differences Betwee		
		The front wings are thin and hard while the outside wings are broad and flexible	The wings are getting longer and stronger so long-distance flights are possible	
		Behavioral D	Behavioral Differences	
		In the first-place solitary creatures, they come together for reproduction only throughout their lives.	They can be found in solitary confinement, mostly in groups where they drill, bask and roost.	
		Sedentary species which have the same habitat for long periods of time	Migratory species in search of food frequently move from one location to another	
		Human Interactions		
		They are also treated as pests because of their ability to destroy crops, an issue which has plagued farmers for centuries	Aid farmers to prepare for droughts as swarms of locusts indicate the arrival of a dry period in the area	
FRIDAY	Show Learners pictures of the geographical range and habitat of grasshoppers.	1. Assist Learners to describe grasshoppers. 2. Learners brainstorm to ide grasshoppers. 3. Discuss with the Learners reproduce their young off 4. Learners in small groups to class on the scientific class. Scientific Classification Kingdom - Animalia. Phylum - Arthropoda. Subphylum - Hexapoda. Class - Insecta. Order - Orthoptera. Suborder — Caelifera Diet - Grasshoppers eat plants who	entify the diet or food of on how grasshoppers spring's. o discuss and present to the sification of grasshoppers.	Reflect on how the grasshopper reproduces young ones. Exercise 1. Describe the behavior of a grasshoppe r. 2. Write on how grasshoppe rs reproduce

Predators - Their predators include birds, beetles, rodents, reptiles, and spiders. Some Flies also eat Grasshopper eggs. The Grasshoppers greatest enemies include various kinds of Flies that lay their eggs in or near Grasshopper eggs. After the Fly eggs hatch, the newborn Flies eat the Grasshopper eggs. Some flies will even lay their eggs on the Grasshoppers body, even while the Grasshopper is flying. The newborn Flies then eat the Grasshopper. Reproduction The Adult Grasshoppers gain sexual maturity within 15 days and survive for a span of about 30 days. Grasshopper's Reproductive System consists of the Gonads, the ducts which carry sexual products to the exterior, and accessory glands. In Males, the Testes consist of a number of follicles which hold the spermatocytes as they mature and form packets of elongated spermatozoa. During reproduction, the Male Grasshopper introduces sperm into the ovipositor through its Aedeagus (reproductive organ), and inserts its spermatophore, a package

containing the sperm, into the Female's Ovipositor. The sperm

young ones.

Ni C T l	C.I I.	D'at data
Name of Teacher:	School:	District:

enters the eggs through fine canals called Micropyles

cereal crops.