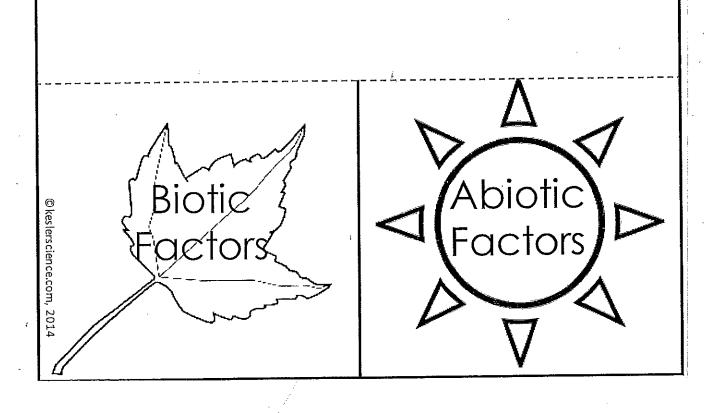
Biotic and Abiotic Factors

Draw a picture of a Lake Palau. List the biotic & abiotic factors under the flaps.



Food Chains and Webs

How does energy move through an ecosystem?

All organisms need energy to live. Energy is stored in food. A **food chain** shows how food energy moves from one organism to another in a community. In one food chain, a grass plant uses energy from sunlight to produce seeds. A mouse gets energy by eating the seeds. A hawk gets energy by eating the mouse. Each organism acts as the energy source for

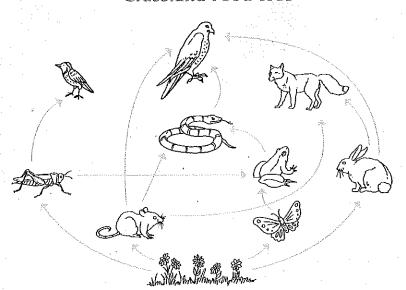
the next organism in the food chain. The first link in a food chain is always a producer.

A simple food chain shows only some of the ways organisms in a community depend on each other for food. Most animals depend on more than one source of food. A **food web** is a network of food chains that gives a more complete

picture of how food energy moves through a community.

Removing one organism from a food web affects other organisms. If a species disappears, the populations that depend on it have more difficulty finding food and their population decreases. At the same time, any population that the missing species feeds on increases, because fewer individuals are eaten.





Show Marie Kare Bares

Use the diagram above to answer these questions.

- Which organisms depend on rabbits for food?
- 2. What would happen to the butterfly population if frogs disappeared?



Food Chains Quiz

1. How are the living creatures in an ecosystem linked?

- a. By what they eat
- b. By how they breathe
- c. By their size
- d. By their species

2. What can you infer from the fact that the disappearance of just one species can disrupt an entire food chain?

- a. Every food chain depends entirely on a single species
- b. Food chains are extremely fragile
- c. Food chains can regenerate on their own
- d. Food chains would not exist without humans

3. How is a food web different from a food chain?

- a. Food webs contain only producers, not consumers
- b. Food webs do not include decomposers
- c. Food webs contain many different, linked food chains
- d. Food webs exist in aquatic environments; food chains exist in terrestrial environments

4. Which of the following is a producer?









5. Through what process do producers make their own food?

- a. Parthenogenesis
- b. Photosynthesis
- c. Meiosis
- d. Mitosis

Name:	3	
Date:	Para Caracana Caracan	
Class:		

6. What role do you play in the food web?

- a. Producer
- b. Consumer
- c. Decomposer
- d. Human

7. How might a lack of sunlight disrupt the food web?

- a. It would cause consumers to consume less
- b. It would prevent decomposers from decomposing matter
- c. It would prevent producers from producing nutrients
- d. It would not disrupt the food web at all

8. How are primary consumers different from secondary consumers?

- a. Primary consumers eat only plants; secondary consumers eat other consumers
- b. Primary consumers eat other consumers; secondary consumers eat only plants
- c. Primary consumers eat plants and other consumers; secondary consumers eat plants and decompose matter
- d. Primary consumers eat plants and decompose matter; secondary consumers eat plants and other consumers



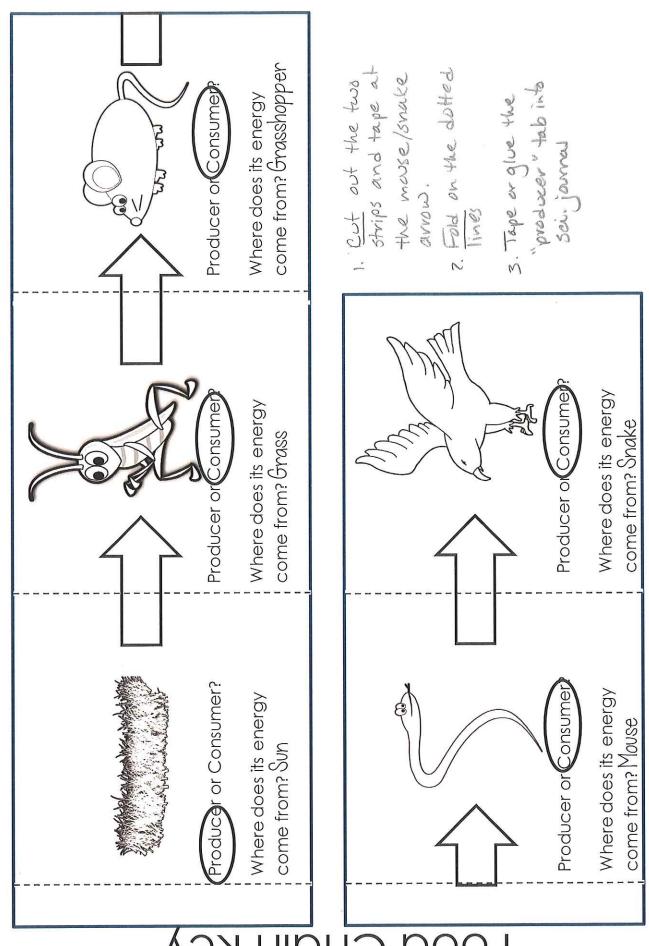
This organism is most likely:

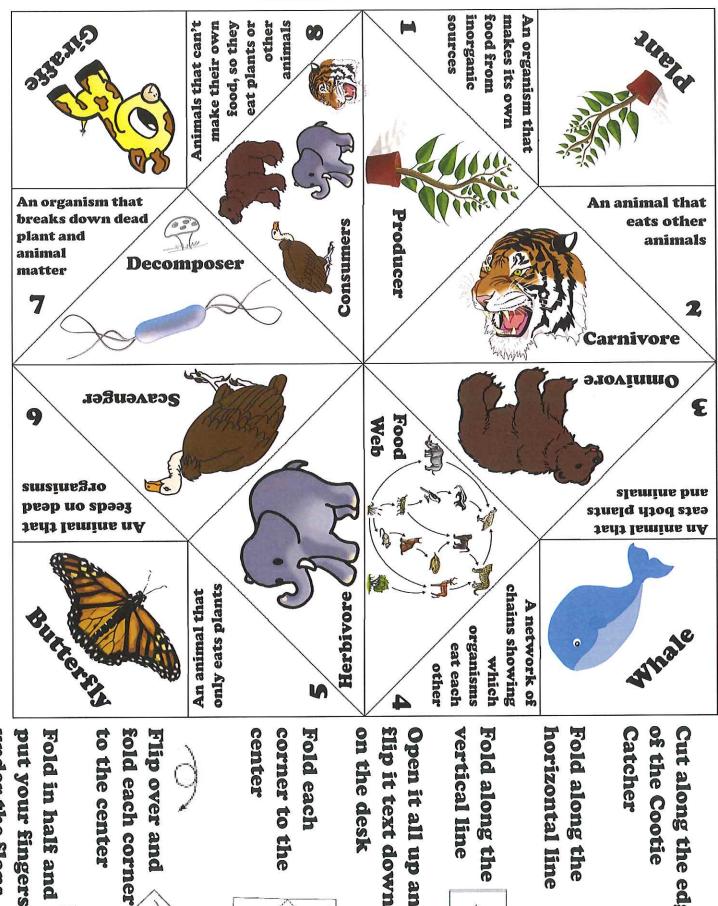
- a. A primary consumer
- b. A secondary consumer
- c. A decomposer
- d. A producer

10. Sheep are herbivorous. What can you infer from this?

- a. They are primary consumers.
- b. They are producers.
- c. They are secondary consumers.
- d. They are decomposers.







Instructions:

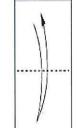
of the Cootie Cut along the edges

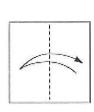
Fold along the horizontal line

vertical line Fold along the











put your fingers Fold in half and under the flaps

Ecosystem Levels of Organization Key

