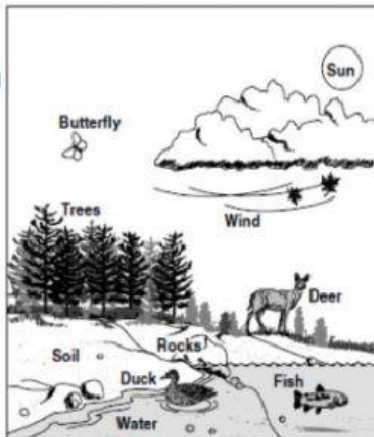


1. All the animals in a desert community would need to --
- be able to survive on little water
 - eat the same food
 - be about the same size
 - be able to dig underground tunnels for shade

2. Which of the following best describes the living and nonliving parts of the diagram above?

- A niche
- An ecosystem
- A biome
- A community



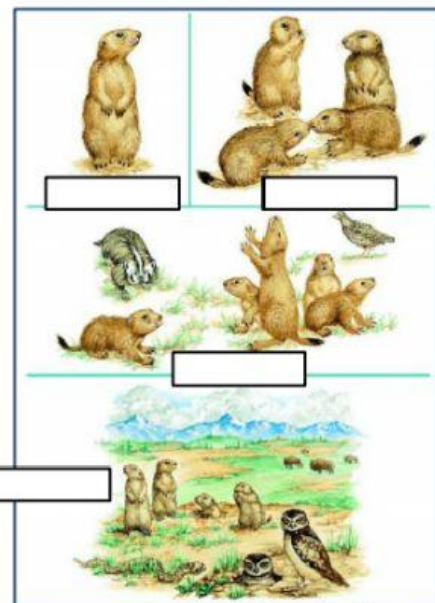
3. Analyze the pictures carefully. Drag the terms that best describe what is being demonstrated in each picture.

ecosystem

organism

population

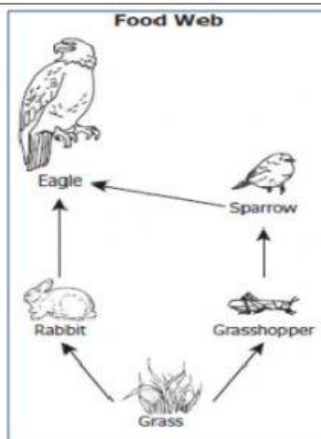
community



21

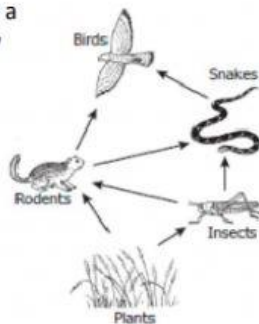
1. Based on the food web, which of these is a producer?

- eagle
- grass
- rabbit
- sparrow



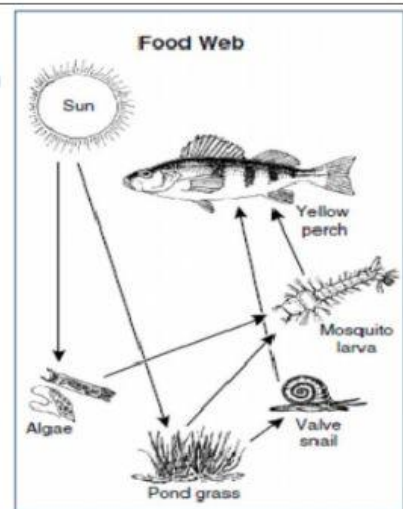
2. Evaluating the food web, create a food chain that shows how energy flows to birds.

rodents	insects	birds
plants	snakes	



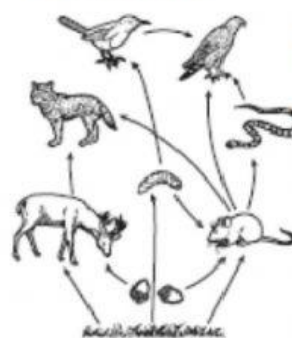
3. In order for energy to flow through this food web from the sun to the yellow perch, the perch must --

- live in warmer areas of its habitat
- eat pond grass and algae
- go through the process of photosynthesis
- eat the valve snail or the mosquito larva



In this food web, select which organisms could be harmed if the mouse population were to decline?

4.



deer	caterpillar
songbird	wolf
hawk	snake

22

1. Frogs and butterflies go through unusual life cycles. Their niche changes as they change. Match the niche with the correct picture.





Lives only in water and breathes with gills.

Pollinates flowers.

Eats leaves.

Lives in water and on land and breathes with lungs.

Builds nest later used by scavengers.

2. Which of the following must be provided by an organism's habitat?

Warmth	Water	Trees
Shelter	Food	Space

3. In a healthy ecosystem, many different species of animals may share the same habitat because they each have a different niche. An animal's niche is best described as--

- a) the role it plays in its habitat
- b) where it is located
- c) its appearance
- d) its ability to reproduce

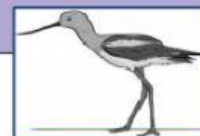
4. Select any animals that would most likely be found in Virginia's forests.



5. A bird that dies benefits a tree by providing it with--

- a) minerals
- b) carbohydrates
- c) water
- d) oxygen

Evaluate 4.3d:Classification can be used to identify organisms



1. A child made a key to classify the plants she has in her garden. The child showed one of the plant and its dichotomous key to her friend and asked him to identify it.

- 1a. Does the plant have wide leaves? go to 2
 1b. Does the plant have long, skinny leaves? Blue Bell
- 2a. Does the plant have heart-shaped leaves? go to 3
 2b. Does the plant have club-shaped leaves? Primrose
- 3a. Does the plant have bell-shaped flowers? Purple bell vine
 3b. Does the plant have flowers not shaped like bells? Anthurium

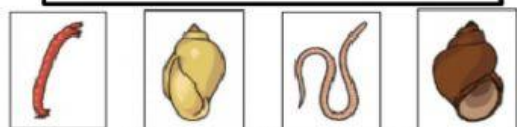


Based on the key, what is the name of the plant?

Blue Bell	Primrose	Purple Bell Vine	Anthurium
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2. Use the dichotomous key to classify each organism.

- 1a worm-like body shape..... go to 2
 1b snail-like bodygo to 3
- 2a has distinct head.....midge
 2b has no distinct head or tail....aquatic worm
- 3a left-handed opening.....lunged snail
 3b right-handed opening.....gilled snail



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- midge
- aquatic worm
- lunged snail
- gilled snail

3. A student saw this bird and used a dichotomous key to classify it.

Bird Classification Key

1a The legs are long and thin.	American Avocet
1b The legs are short.	Go to 2
2a The feathers can spread out like a fan.	Indian Peafowl
2b The feathers can not spread out like a fan.	Go to 3
3a It has a hooked beak.	Peregrine Falcon
3b It does not have a hooked beak.	Go to 4
4a The feet have long, skinny toes.	Black-Crowned Night Heron
4b The feet are webbed.	Go to 5
5a The neck is short.	Mandarin Drake
5b The neck is long.	Black Swan

What type of bird did the student see?

American Avocet	Black Swan	Peregrine Falcon	Mandarin Drake
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4. Select how the animals in Box A be classified differently from those in Box B?



A B

- The animals in Box A live on land.
- The animals in Box A have tails.
- The animals in Box A live in water.
- The animals in Box A have 4 legs.
- The animals in Box A have shells.