Study Guide

CHAPTER 31

Section 1: Basic Behaviors

In your textbook, read about behavior.

Respond to each statement.

- 1. **Describe** what is meant by behavior. **Cite** an example.
- **2. Specify** the two factors that both influence behavior.
- **3**. Name the process by which behavior evolves, resulting in advantages for a species.

In your textbook, read about innate behavior and learned behavior.

Complete the table by checking the correct column(s) for each behavior.

Behavior	Innate	Learned
4. A dog catches a ball in the park.		
5. A chimpanzee uses a rock to break open nuts.		
6. A goose rolls her egg back to the nest.		
7. A blue jay avoids eating a butterfly that looks like a monarch.		
8. A parent bird feeds its chirping chick.		
9. A dog salivates at the sound of a bell without food present.		
10. Birds no longer fly away from a scarecrow in a cornfield.		
11. A rat presses a lever to get a food pellet.		
12. Members of a species of mammals begin to walk at the same age.		

Study Guide, Section 1: Basic Behaviors continued

Match the definition in Column A with the term in Column B.

	Column A		Column B
 13.	behaviors that are genetically based and not linked to	A.	classical conditioning
	past experiences	В.	imprinting
 14.	a regular set of actions usually carried out in order in response to a stimulus	C.	innate behavior
15.	behavior that results from an interaction between		learned behavior
	innate behavior and past experiences within a particular environment	E.	cognitive behavior
 16.	a decrease in an animal's response to a stimulus that	F.	fixed action pattern
	has no positive or negative effects	G.	operant conditioning
 17.	a type of learned behavior that was shown by Pavlov's experiment with a dog, meat powder, and a ringing bell	Н.	habituation
 18.	a type of behavior in which an animal learns to associate its response to a stimulus with reward or punishment		
 19.	learning that only occurs within a set time period in an animal's life and is permanent		
 20.	thinking, reasoning, and processing information to understand complex concepts and solve problems		

Complete the table by checking the correct column(s) for each behavior.

Behavior	Imprinting	Habituation
21. A new clock with chimes keeps you awake for two nights. After that, you do not notice the chimes and sleep all night.		
22. You put a large stone owl in your garden to keep birds away. After two days, the birds come back to your garden.		
23. Zookeepers use a mother owl puppet to raise baby owls. When released to the wild, the owls relate to their own species.		
24. Three newly hatched ducklings first see a boy next to their nest. The ducklings ignore other ducks and only follow the boy.		

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Study Guide

CHAPTER 31

Section 2: Ecological Behaviors

In your textbook, read about types of behaviors.

For each answer below, write an appropriate question.

1. Answer: It is a ranking system in which the top animal gets resources without fighting other animals in the group. Question: _ **2. Answer:** An animal finds and eats food. Question: _ **3. Answer:** Birds and grazing mammals move long distances every season to new areas.

Complete the table by checking the correct column(s) for each behavior.

Behavior	Competitive	Communication	Courting	Cooperative	Biological Rhythm
4. A polar bear threatens interaction.					
5. A male bird inflates his red throat sac.					
6. Naked mole rats lie by their queen to warm her.					
7. A cheetah sprays trees with pheromones.					
8. A mammal's sleep/wake cycle is 24 h.					

In your textbook, read about advantages and disadvantages.

For each statement below, write true or false.

 9.	Spending large amounts of energy nurturing offspring can be a disadvantage.
 10.	An advantage of migration is that it might reduce predation on the migrating animal.
 11.	Pheromones have a larger range of communication than auditory or visual signals.
 12.	Nurturing increases an offspring's chance of survival.
 13.	Pheromones can be used to relay messages of alarm within a species.
1/1	Nurturing is an advantage because the genes of parents continue into future generations

Study Guide, Section 2: Ecological Behaviors continued

In your textbook, read about communication behaviors.

Use each of the terms below only once to complete the passage.

	auditory language	behavior odors	communi pheromor	
Through various forms of (15)				, animals exchange information
that affects their (16)			An	nimals communicate with visual signals,
by touching each other, and by (17)				communication. They also
communicate with (18)			,	, using (19),
which are species-specific chemicals that can affect behavior. Some types of communication				
involve both (20) and learned behavior. Human				arned behavior. Human
(21)		is a w	ay of communi	nicating complex information through
(22)		to pr	oduce groups of	of sounds that have shared meanings.
In your textbook, read about different behaviors. Below are excerpts from the field notebook of a behavioral biologist. Identify the behavior exhibited in each case.				
23.	then yawns to show Behavior exhibited	1 0	25.	Field Notes At a water hole, the oldest female drinks first, then three females with calves drink, and finally a young male drinks. Behavior exhibited:
24.	Field Notes A female chimpana her baby. Behavior exhibited	zee nurses and prote	cts 26.	Field Notes Large numbers of monarch butterflies fly south for the winter. Behavior exhibited: