

Chapter 51: Animal Behavior

- 51.1 Compare and contrast the role of environmental changes and animal communication in triggering animal behavior.
- 51.2 Use examples to illustrate the diverse forms of learning observed among animal species.
- 51.3 Discuss how foraging and reproductive behavior can evolve as responses to selection for relative fitness.
- 51.4 Explain how genetic and quantitative analyses are used in exploring and modeling selection for particular behaviors.

This chapter may be one of your favorites, as it will cause you to consider behaviors you have noticed and lead you to question how the behavior could affect natural selection. Behaviors of an individual serve to increase its fitness in the population and are vital to reproduction and survival. Throughout this course, you have seen numerous examples of communication beginning with a signal which leads to a response. In this chapter you see that this occurs not only at the cellular level, but also at the level of the organism and population. There are myriad environmental cues that elicit responses.

Study Tip: Throughout this chapter, watch for how each of the four questions presented in Figure 51.1 in your text are used to analyze *how* behaviors occur and *why* they arise. List the four questions in the space below as you read the examples utilizing the magnificent frigatebird. Can you think of behaviors you have observed and how those behaviors fit into these four questions?

Concept 51.1 Discrete sensory inputs can stimulate both simple and complex behaviors

LO 51.1: Compare and contrast the role of environmental changes and animal communication in triggering animal behavior.

1. How is behavior defined? Why are behaviors subject to natural selection?
~~behavior comes about by~~ ~~the~~ ~~environmental~~ ~~changes~~ ~~and~~ ~~animal~~ ~~communication~~
2. Nicholas Tinbergen was a pioneer in the study of animal behavior. He framed the four questions presented in the opening figure. His work with the stickleback fish is a classic study. Explain what he found, using the terms *fixed action pattern* and *sign stimulus* in your response.
~~In a male stickleback, when the red ventral area of another male is a sign stimulus that may trigger a fixed action pattern of aggressive behavior of an animal.~~

Chapter 51 Animal Behavior Reading Guide Answers

M Mark

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Resources in Education ,1979-10 **Test Items and Interactive Electronic Study Guide Questions for Starr's Biology : Concept and Applications** Larry G. Sellers,2000 **Biology** Neil A. Campbell,Jane B. Reece,2005 Neil Campbell and Jane Reece s BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter

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