

Chapter 51

Animal Behavior

- **A behavior** is an action carried out by muscles under control of the **Nervous** system
- Behavior is subject to natural selection
- Niko Tinbergen identified four questions that should be asked about animal behavior
 - 1. What stimulus elicits the behavior, and what physiological mechanisms mediate the response?
 - 2. How does the animal's experience during growth and development influence the response?
 - 3. How does the behavior aid survival and reproduction?
 - 4. What is the behavior's evolutionary history?
- **Behavioral ecology** is the study of the ecological and **evolutionary** basis for animal behavior
 - Behavioral ecology integrates proximate and ultimate explanations for animal behavior
 - Proximate causation addresses "how" a behavior occurs or is modified, including Tinbergen's questions 1 and 2
 - Ultimate causation addresses "why" a behavior occurs in the context of natural selection, including Tinbergen's questions 3 and 4

Fixed Action Patterns

- **A fixed action pattern** is a sequence of **unlearned** acts directly linked to a simple **stimulus**
- Fixed action patterns are unchangeable and, once initiated, usually carried to **completion**
- A fixed action pattern is triggered by an external cue known as a **sign stimulus**
 - Tinbergen observed male stickleback fish responding to a passing red truck
 - In male stickleback fish, the stimulus for attack behavior is the red underside of an intruder

Answer Key Animal Behavior Chapter 37

Rachel Sandford



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