

Unit 8: Ecology

Interacting with the Environment Behaviour

- **Endotherms** are animals that generate their own body heat through metabolism. Ectotherms lack an internal mechanism to control body temperature.
- **Instinct** is an inborn, unlearned behavior.
- Another form of behavior is learning. Learning refers to a change in a behavior brought about by an experience
- If the mother is absent, the offspring will accept the first moving object they see as their mother. This process is known as imprinting.
- While there are different types of imprinting, including parent, sexual, and song imprinting, they all occur during a critical period—a window of time when the animal is sensitive to certain aspects of the environment.
- **Habituation** is another form of learning. It occurs when an animal learns not to respond to a stimulus.
- Roosters do have internal alarm clocks. Plants have them as well. These internal clocks, or cycles, are known as circadian rhythms.

How Animals Communicate

- Pheromones, are chemical signals between members of the same species that stimulate olfactory receptors and ultimately affect behavior.
- **Agonistic behavior** is aggressive behavior that occurs as a result of competition for food or other resources.
- **Dominance hierarchies** (pecking orders) occur when members in a group have established which members are the most dominant.
- Territoriality is a common behavior when food and nesting sites are in short supply.
- **Altruistic behavior** is defined as unselfish behavior that benefits another organism in the group at the individual's expense because it advances the genes of the group.

Many organisms that coexist exhibit some type of symbiotic relationship

The basic types of symbiotic relationships:

1. **Mutualism**—in which both organisms win (for example, the lichen components)
2. **Commensalism**—in which one organism lives off another with no harm to the host organism (for example, the remora)
3. **Parasitism**—in which the organism actually harms its host

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Inheritance Alpha Omega Publications,2001-03-01 *Extended Heredity* Russell Bonduriansky,Troy Day,2018-04-10

How genes are not the only basis of heredity and what this means for evolution human life and disease For much of the twentieth century it was assumed that genes alone mediate the transmission of biological information across generations and provide the raw material for natural selection In *Extended Heredity* leading evolutionary biologists Russell Bonduriansky and Troy Day challenge this premise Drawing on the latest research they demonstrate that what happens during our lifetimes and even our grandparents and great grandparents lifetimes can influence the features of our descendants On the basis of these discoveries Bonduriansky and Day develop an extended concept of heredity that upends ideas about how traits can and cannot be transmitted across generations By examining the history of the gene centered view in modern biology and reassessing fundamental tenets of evolutionary theory Bonduriansky and Day show that nongenetic inheritance involving epigenetic environmental behavioral and cultural factors could play an important role in evolution The discovery of nongenetic inheritance therefore has major implications for key questions in evolutionary biology as well as human health *Extended Heredity* reappraises long held ideas and opens the door to a new understanding of inheritance and evolution

Inheritance Sharon Moalem,2014-04-10 A groundbreaking book that will transform how we understand ourselves and our families by revealing that everything we thought we knew about genetics is wrong Your experiences no matter how seemingly inconsequential from bullies to crushes to what you eat for dinner have all left an indelible mark within you And more importantly within your genes *Inheritance* is a guidebook for change No longer do we have to settle for what we've been given We can write our own story We're taught that we don't have much of a choice in the matter of what we get or what we give because our genetic legacy was fixed when our parents conceived us But that's all wrong Our genes are constantly on the move some are turning on while others are turning off all in response to what you're doing what you're seeing and what you're feeling And all of those things can be changed which means we can change Genetically **AP**

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Cycle Lipids Mendelian Genetics Mitosis and Meiosis Nucleic Acids Scientific Method Transcription and Translation Conclusion

An excerpt from the book Anaerobic respiration is how cells make energy when as you may have guessed from the name there is no available oxygen In fact for this process there is neither oxygen nor mitochondria present The two processes that allow this to work are those of glycolysis and fermentation In cellular respiration what we normally see is glucose breaks down to pyruvate and from this process we net 2 ATP Next the pyruvate will go into the mitochondria and enter the Krebs cycle In the process of being converted to acetyl CoA CO₂ is given off and another 2 ATP are made This energy is stored in NADH and FADH₂ Their electrons move into the electron transport chain which will move to oxygen to transform the product to water In this 23 34 ATP are made Tags ap biology ap bio ap biology review and study guide ap biology exam learnerator

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Ap Bio Inheritancepogil Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Ap Bio Inheritancepogil**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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