

SUSTAINABLE PRACTICES IN WILDLIFE CONSERVATION

ENVIRONMENTAL STUDIES

Designed For Students:
 Grades 6th-12th
 Ages 11-18

Program Length:
 3 hours

Park:
 Disney's Animal Kingdom® Theme Park
 (Morning) Meet at the flagpole outside the Main Entrance
 (Afternoon) Meet at Garden Gate Gifts

Science

Grades 6-8

Life Sciences

- Understands that quality of life is relevant to personal experience
- Knows that behavior is a response to the environment and influences growth, development, maintenance, and reproduction
- Knows the roles animals play in their ecosystem, including the ways in which animals reshape the landscape (e.g., bacteria, fungi, worms, rodents, and other organisms add organic matter to the soil, increasing soil fertility)
- Knows that each organism requires resources in order to survive in its environment.
- Knows that a lack of resources, from environmental change or human-induced habitat destruction, will affect the number of animals an ecosystem can support
- Knows that fossils indicate that many organisms that lived a long time ago are now extinct.
- Identifies a conservation question that can be answered through scientific investigation, and proposes a method of investigating that question

Science and Technology

- Designs a solution to a technological challenge, implements the design, communicates the rationale for the design to a group and critiques their design relevant to the original need

Personal and Social Perspectives

- Knows the positive and negative consequences of human action on the Earth's systems.
- Knows that some resources are renewable and others are nonrenewable
- Understands that humans are part of an ecosystem and their activities may deliberately or inadvertently alter the equilibrium in ecosystems

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History and Nature of Science

- Understands that contributions to the advancement of science, mathematics, and technology have been made by different kinds of people, in different cultures, at different times, and are an intrinsic part of the development of human culture

Physical Science

- Knows that most of the energy used today is derived from burning stored energy collected by organisms millions of years ago (i.e., nonrenewable fossil fuels)

Grades 9-12

Life Sciences

- Knows that each source of energy presents advantages and disadvantages to its use in society (e.g., political and economic implications may determine a society's selection of renewable or nonrenewable energy sources)

Earth and Space Science

- Knows that Earth's systems and organisms are the result of a long, continuous change over time

Personal and Social Perspectives

- Understands the ways in which humans today are placing their environmental support systems at risk (e.g., rapid human population growth, environmental degradation, and resource depletion)
- Understands the interconnectedness of the systems on Earth and the quality of life
- Understands that the amount of life any environment can support is limited and that human activities can change the flow of energy and reduce the fertility of the Earth
- Understands the role of science and technology to meet local, national and global conservation challenges (e.g., biomass and waste-to-energy systems, habitat conservation)

Physical Science

- Understands that the burning of fossil fuels and carbon-based waste from municipal garbage releases large amounts of energy by emitting heat, which is used to create electricity

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Science and Technology

- Proposes solutions to conservation challenges, and understands the costs and benefits of that solution

History and Nature of Science

- Knows that technological problems often create a demand for new scientific knowledge and that new technologies make it possible for scientists to extend their research in a way that advances science

Language Arts

Grades 6-12

- Communication Skills
- Speaks clearly at an understandable rate and uses appropriate volume.
- Asks questions and makes comments and observations to clarify understanding of content, processes, and experiences
- Uses effective strategies for informal and formal discussions, including listening actively and reflectively, connecting to and building on the ideas of a previous speaker, and respecting the viewpoints of others

Applying Knowledge

- Responds to speakers by asking questions, making contributions, and paraphrasing what is said

Evaluating Data

- Determines main concept, supporting details, stereotypes, bias, and persuasion techniques in a non-print message.
- Uses effective strategies for informal and formal discussions, including listening actively and reflectively, connecting to and building on the ideas of a previous speaker, and respecting the viewpoints of others.

Applying Language Skills

- Listens and uses information gained for a variety of purposes, such as gaining information from interviews, following directions, and pursuing a personal interest.

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Social Sciences (Geography)

Grades K-12

- The World in Spatial Terms
- Understands how to analyze the spatial organization of people, places, and environments on Earth's surface.

Places and Regions

- Understands the interactions of people and the physical environment.
- Understands the global impact of human changes in the physical environment.
- Understands how social, cultural, economic, and environmental factors contribute to the dynamic nature of regions.

Environment and Society

- Understands the environmental consequences of people changing the physical environment in various world locations.
- Understands how the interaction between physical and human systems affects current conditions on earth.

Human Systems

- Knows ways in which the spatial organization of a society changes over time.
- Understands the relationships between resources and the exploration, colonization, and settlement of different regions of the world.