CASES FOR CONSERVATION TOPICS LIST

Pre K Topic: Animal Coverings

Pre-K students will:

·Sort animal images by observable characteristics (color, pattern, number of appendages)
· Examine animal biofacts in the case and match them to animal images
· Describe how each animal covering feels to touch—soft, hard, smooth, bumpy
· Sort and classify the animal biofacts that feel similar (skin, scales, shell, feathers, hair/fur)
· Identify coverings that students have: hats, shoes, sweaters, etc. and what these coverings do for us
· Explore why different animals have different coverings and how that helps them where they live

Kindergarten Topic: Animal Comparisons

Kindergarten students will:

· Match images of animal babies to their parents and discover similarities and differences between adults and young
· Examine animal biofacts in the Case for Conservation (labeled with animal images) and describe how animals are alike and how they are different
· Discover how color and pattern help animals where they live
· Group animals that look similar—small and big animals; animals with similar coverings of scales, feathers or fur; animals that are the same color; and those with spots or stripes
· Compare similarities and differences among animals based on how they move: which animals walk on four legs, move slowly, run fast, hop, climb, fly, swing, or swim. An optional activity enables students to use animal footprint stamps to make tracks.
· Use a map and a globe to find where they live and where a variety of animals live

First Grade Topic: Animal Basic Needs

First grade students will:

· Learn that animals have basic needs just as people do
· Examine animal biofacts and other props in the Case for Conservation to compare how different animals are adapted to eat; where they find shelter from the environment and from predators; and how they find or construct homes to raise their young
· Use a map to locate where animals live on all seven continents
· Discuss how people care for animal needs: at home, on farms, and at the zoo

Second Grade Topic: Animals around Me: Life Cycles of Georgia Animals

Second grade students will:

· Examine animal biofacts and other props in the Case for Conservation to learn about life cycles of a Georgia butterfly, frog, tortoise, bird and mammal
· Identify some of the animals that live in each of Georgia's five major geographic regions (the Appalachian Plateau, Appalachian Valley and Ridge, Blue Ridge Mountains, Piedmont and Coastal Plain)
· Discover animals that live around them in their backyard, schoolyard or neighborhood park

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Third Grade Topic: Georgia Habitats and the Pollution Solution

Third grade students will:

- Examine animal biofacts and other props in the Case for Conservation to explore Georgia's major habitats and the types of plants and animals that live in each.
- Explore how animals are adapted to live in their habitat.
- Discuss how changes to habitat affect the animals that live there.
- Discover how human actions pollute wild habitats, and the effects this has on animals.
- Recognize that there are positive solutions to environmental problems, through examples of actions that people are taking to protect animals and the environment.
- Identify the daily actions that they can take, and why these actions help protect wildlife and their habitats.

Fourth Grade Topic: Animals and the Environment

Fourth grade students will:

- Be introduced to the terms habitat, environment and ecosystem
- Examine the flow of energy through an ecosystem by exploring how green plants produce food from the sun's energy; how animals consume plants and/or other animals; and how decomposers break down decaying matter.
- Discover how all life is connected through food chains and intricate food webs.
- Explore animal biofacts and other props in the Case for Conservation to learn how animals are adapted to live and survive in their habitat.
- Discuss how natural and human-caused changes to the environment affect animals' ability to survive there.
- Recognize that there are positive solutions to environmental problems, through examples of actions that people are taking to protect animals and their environments.

Fifth Grade Topic: Classification

Fifth grade students will:

- Sort and classify objects based on shared characteristics
- Discover how and why scientists classify animals into groups
- Examine the classification of animals into invertebrates and vertebrates
- Explore animal biofacts and other props in the Case for Conservation to learn the physical characteristics that define vertebrates as fish, amphibians, reptiles, birds or mammals

Sixth Grade Topic: Water, Climate, and Ecosystems

Sixth grade students will:

- Construct stages of the water cycle to understand how these affect Earth's atmospheric conditions.
- Use a globe to visualize how much of the planet's surface is covered with water as they learn how oceans affect climate and weather.
- Discover how the water cycle, weather and climate affect the availability of water in ecosystems.
- Determine how plants, animals and people have adapted to the abundance, scarcity or seasonal patterns of water in their environment.
- Use world and geopolitical maps to locate regions of Latin America
- Examine animal biofacts and other props in the Case for Conservation that illustrate how species are adapted to survive in distinct ecosystems in Latin America and see examples of Zoo Atlanta's conservation projects.
- Discuss how environmental issues affect ecosystems, wildlife and people in Latin America.

CASES FOR CONSERVATION TOPICS LIST

Seventh Grade Topic: Exploring Biomes

Seventh grade students will:

- Determine that climate, weather, water availability, altitude and soil type determine the types of plants and animals that can inhabit ecosystems
- Explore the Earth's major biomes and their major plant and animal communities
- Use a world biome map to locate the Earth's biomes, use a world map to locate Africa and Asia, and use geopolitical maps to locate West and Central African countries, Indonesia (Sumatra), Malaysia (Borneo) and China
- Examine animal biofacts and other props in the Case for Conservation to explore how scientists are studying the lowland gorilla of Central Africa, orangutan of Indonesia and Sumatra, and the giant panda of China, and the quest to save these critically endangered species
- Discuss how environmental issues affect ecosystems and endangered species in Central Africa and parts of Asia, and learn how students can help