

# Build-A-Field Trip

A DIVISION OF FLORIDA SAFARI ADVENTURES

## 3 DAY TRIP - BAHAMAS B.E.A.C.H. AND DOLPHIN ADVENTURE

4th - 12th Grade **Coral Reef Diversity, Tidal-Zone Exploration, Marine Mammal**

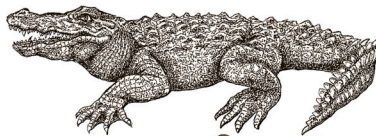


- Visit B.E.A.C.H. on Blue Lagoon Island
- Dolphin Encounter
- Astronomy and Fish ID Program
- Snorkel the Coral Reefs
- Exploration of Inter-tidal Zone
- Record data in Journals



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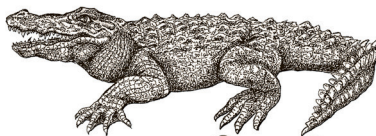
Join us as we board our flight in Ft. Lauderdale and find ourselves just one hour later in the rich island paradise that is Nassau. Located on the island of New Providence in the renowned Bahamas island chain, Nassau is an ideal destination for our exploration of the fantastic yet fragile Caribbean marine ecosystem. On our arrival, we get acquainted quickly with the ocean that will be our classroom for the next two days as we board our pre-research vessel- a sturdy double-decker ferry- and head over to Blue Lagoon Island, home of Project B.E.A.C.H. (Bahamas Education Association for Cetacean Health). Here, students will be schooled in the husbandry, health and behavior of marine mammals before coming face to face with the island's resident dolphins in a once in a lifetime encounter! Whether it's a dolphin kiss, hug or remarkable 'foot push,' every participant will create their own personal dolphin connection and truly understand the need to protect the marine home of these incredible mammals. As we leave Blue Lagoon Island for the evening's rest, we have much to reflect on and look forward to. A home-cooked meal of fresh Bahamian seafood waits for us at our quiet beach inn on the grounds of a former orange plantation, where we restore our energy for the next day's exploration.

Our ocean odyssey continues as we explore the interconnectedness of the marine habitats back at Blue Lagoon Island. Learning to identify local reef fish and invertebrates is essential before embarking on our snorkeling expedition. Gliding through the tropical waters, we'll become acquainted with the rich variety of corals that exemplify the great bio-diversity of this reef system. Our knowledge is reinforced by the building of our own coral reef model as well as our exploration of the neighboring inter-tidal zone. Assembling our own traps, we'll catch and release animals living in this harsh environment, studying firsthand their unique adaptations for survival. We'll head back to our inn nestled in the grove with a greater understanding of how each animal- from the majestic dolphin to the curious parrotfish to the tiny periwinkle snail- is vital to this amazing marine system.

Day three finds us heading to dry land to delve into the rich island history of Nassau. We've caught a glimpse of the traditional conch vendors as we ferried across the Nassau Harbor- defended from 1789 by the cannons of Fort Charlotte which are still on display for us to discover. A local guide heads up our historic walking tour which includes visits to the Vendue House, a former slave auction site and current site of the Pompey Museum of Slavery and Emancipation, as well as the Parliament building,

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Government House and the Cenotaph (Monument to fallen heroes).

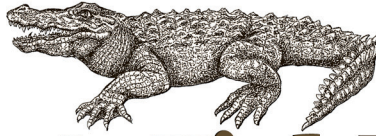
As we journey through Bahamian history, we will unlock secrets of the islands' natural past, with a look at the medicinal plants and old herbal remedies still practiced here. No tour of this historic town would be complete without an exploration of Bay Street, with its straw market and local flavor. Throw in the historic underbelly complete with pirate lore- stories of revenge and plunder that add intrigue to this rich island culture- and we've truly experienced this magnificent island town. As we say goodbye to Nassau and fly home, we can look down at the deep blue of the Atlantic, knowing that we've come a little closer to understanding its secrets.

### PRICING:

- **\$650.00 per student**
- **Based on a minimum of 25 students**
- **Based on Broward county departure**
- **Includes coach transportation, instruction, equipment, lodging and meals**
- **Seasonal rates apply**

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### EDUCATIONAL OBJECTIVES

Sunshine State Standards following Grades 4-8

#### Students will:

**-understand the significance of human actions, including their own, in the protection of natural resources such as water**

SS.5.C.2.5 Identify ways good citizens go beyond basic civic and political responsibilities to improve government and society.

SS.6.G.3.2 Analyze the impact of human populations on the ancient world's ecosystems.

SC.8.N.4.2 Explain how political, social, and economic concerns can affect science, and vice versa.

SS.8.G.5.1 Describe human dependence on the physical environment and natural resources to satisfy basic needs in local environments in the United States.

SC.912.L.17.11 Evaluate the costs and benefits of renewable and nonrenewable resources, such as water, energy, fossil fuels, wildlife, and forests.

SC.912.L.17.12 Discuss the political, social, and environmental consequences of sustainable use of land.

SC.912.L.17.13 Discuss the need for adequate monitoring of environmental parameters when making policy decisions.

SC.912.L.17.15 Discuss the effects of technology on environmental quality.

SC.912.L.17.16 Discuss the large-scale environmental impacts resulting from human activity, including waste spills, oil spills, runoff, greenhouse gases, ozone depletion, and surface and groundwater pollution.

SC.912.L.17.18 Describe how human population size and resource use relate to environmental quality.

SS.912.C.2.4 Evaluate, take, and defend positions on issues that cause the government to balance the interests of individuals with the public good.

SS.912.C.2.8 Analyze the impact of citizen participation as a means of achieving political and social change.

SS.912.G.2.5 Use geographic terms and tools to analyze case studies of debates over how human actions modify a selected region.

SS.912.G.3.3 Use geographic terms and tools to explain differing perspectives on the use of renewable and non-renewable resources in Florida, the United States, and the world.

SS.912.G.5.2 Analyze case studies of how changes in the physical environment of a place can increase or diminish its capacity to support human activity.

SS.912.G.5.4 Analyze case studies of how humans impact the diversity and productivity of ecosystems.

**-identify and understand basic dolphin anatomy, its unique structures and functions, and dolphin behavior how these are related to environmental issues**

SC.5.L.14.2 Compare and contrast the function of organs and other physical structures of plants and animals, including humans, for example: some animals have skeletons for support -- some with internal skeletons others with exoskeletons -- while some plants have stems for support.

SC.5.L.17.1 Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.

SC.6.L.15.1 Analyze and describe how and why organisms are classified according to shared characteristics with emphasis on the Linnaean system combined with the concept of Domains.

SC.7.L.16.1 Understand and explain that every organism requires a set of instructions that specifies its traits, that this hereditary information (DNA) contains genes located in the chromosomes of each cell, and that heredity is the passage of these instructions from one generation to another.

SC.7.L.15.2 Explore the scientific theory of evolution by recognizing and explaining ways in which genetic variation and environmental factors contribute to evolution by natural selection and diversity of organisms.

SC.7.L.15.3 Explore the scientific theory of evolution by relating how the inability of a species to adapt within a changing environment may contribute to the extinction of that species.

SC.912.L.15.7 Discuss distinguishing characteristics of vertebrate and representative invertebrate phyla, and chordate classes using typical examples.

SC.912.L.17.6 Compare and contrast the relationships among organisms, including predation, parasitism, competition, commensalism, and mutualism.

SC.912.L.17.7 Characterize the biotic and abiotic components that define freshwater systems, marine systems and terrestrial systems.

**-understand that organisms both within and between ecosystems are interconnected through examination of ocean systems, with emphasis on the human element in these systems**

SC.5.L.15.1 Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations.

SC.5.N.2.1 Recognize and explain that science is grounded in empirical observations that are testable; explanation must always be linked with evidence.

SC.7.L.17.3 Describe and investigate various limiting factors in the local ecosystem and their impact on native populations, including food, shelter, water, space, disease, parasitism, predation, and nesting sites.

SC.7.N.2.1 Identify an instance from the history of science in which scientific knowledge has changed when new evidence or new interpretations are encountered.

SC.912.L.17.4 Describe changes in ecosystems resulting from seasonal variations, climate change and succession.

SC.912.L.17.8 Recognize the consequences of the losses of biodiversity due to catastrophic events, climate changes, human activity, and the introduction of invasive, non-native species.

**- identify and understand basic marine organisms and their unique structures and functions and how these are related to environmental adaptations, with a focus on the coral reef**

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SC.912.L.17.7 Characterize the biotic and abiotic components that define freshwater systems, marine systems and terrestrial systems.

**- learn that organisms living in an intertidal zone have a variety of specific adaptations that allow them thrive in an area of variable temperature, salinity, stability, etc.**

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SC.912.L.17.3 Discuss how various oceanic and freshwater processes, such as currents, tides, and waves, affect the abundance of aquatic organisms.

SC.8.L.18.1 Describe and investigate the process of photosynthesis, such as the roles of light, carbon dioxide, water and chlorophyll; production of food; release of oxygen.

**- understand the impact individuals, cultures and group organizations have had on the preservation of natural areas through discussion of Nassau's environmental organizations**

SS.5.C.2.5 Identify ways good citizens go beyond basic civic and political responsibilities to improve government and society.

SS.912.C.2.2 Evaluate the importance of political participation and civic participation.

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