

WATERS AROUND THE WORLD

TEACHER GUIDE FOR EXPEDITION



PROGRAM OVERVIEW

- This 45 minute to 1 hour program leads students on an exploration of Rocky Coasts in Seneca Park Zoo.
- Students engage in activities and discussions with a Zoo educator to explore how people and animals rely on salt water and fresh water for survival. Students will discover how much of the Earth's water is usable for human consumption and describe ways that humans can conserve water.



LEARNING STANDARDS

NextGen & New York State P-12 Science Learning Standards:

- 3rd Grade: Interdependent Relationships in Ecosystems
- 4th Grade: Structure, Function, and Information Processing
- 5th Grade: Earth's Systems



HOW TO PREPARE YOUR STUDENTS

Logistics

- Have your students split into groups of 15 or fewer.
- Assign 2-3 chaperones/teachers per group.
- Make sure that students are dressed for the weather.
- Provide name tags for students to wear.

Content

- It is helpful to pre-teach the definition of conserve.
- Students should have the ability to work with basic fractions.



WHAT TO EXPECT WHEN YOU ARRIVE

- Your buses will pull up to the drop off area at the Front Gate.
- A Zoo staff person will check in your bus.
- You will check in at the Front Gate. Make sure that you know the total number of guests (students and teachers/chaperones) in your group. Have payment ready unless you have already submitted a purchase order.
- While you are checking in, a Zoo staff member will greet your group and give a brief presentation on Zoo etiquette and safety. Your group will enter the Zoo and wait at a designated flag area.
- The Zoo educator will take your first group and begin your Expedition. Subsequent Expedition groups will meet the Zoo educator at the tent next to tigers at the times listed on the schedule provided to begin their Expedition.



ESSENTIAL QUESTIONS

- How do animals and people rely on salt water and fresh water for their survival?
- How much of the Earth is covered by water? How much of the Earth's water is available for human consumption?
- How can people conserve water?



WHAT YOU WILL SEE DURING YOUR EXPEDITION



sandhill cranes



California sea lions



WHAT YOUR STUDENTS WILL DO

- Make observations
- Record observations in Field Guides provided by Zoo educator
- Engage in activities and discussions led by Zoo educator



POST VISIT SUGGESTIONS

A PSA to Save the Day Activity:

- Show students an example of a public service announcement. Students are asked to identify the purpose of the video. Why do people make these? What information is shared? Would you change your behavior after watching one of these? Students watch the PSA again, but this time pay close attention to the important parts of the PSA.
- Students design their own PSA to convince people to conserve water. These could be TV or radio ads.
- Note: Students could submit their PSAs to be broadcast on local TV or radio stations.



RESOURCES

- Seneca Park Zoo <http://senecaparkzoo.org/>
- World Wildlife Fund: <http://www.worldwildlife.org/habitats/>
- H2O Hero: <http://www.h2ohero.org/>
- National Geographic: <http://environment.nationalgeographic.com/environment/freshwater/>
- 50 Simple Things: <http://www.50simplekids.com/>

