



**OCEAN
DISCOVERY**
INSTITUTE
young lives transformed through science

LI INTENSIVE SUMMER PROGRAMS VOLUNTEER TRAINING

Jo Vance . July 2021

GOALS

1. Discuss the curriculum structure.
2. Review the introduction to the curriculum theme.
3. Highlight specific mentoring opportunities.
4. Identify specific curriculum pages for each volunteer shift.



CURRICULUM STRUCTURE

1. Introduction
2. Community Building
3. Science Curriculum
4. Instructor Supplemental Material

INTRODUCTION: STUDENT STORY

Ocean Leader Bridge Story

External – Students

I am excited to continue my journey with Ocean Discovery Institute as an Ocean Leader! Over the years, Ocean Discovery has helped me believe that science is something I can do and a science leader is someone I can become.

On our first two days, I meet the Ocean Discovery staff, the scientists, and alumni mentors, and learn about my new Ocean Discovery home - the Living Lab. We participate in an Ocean Leader Challenge, create an avatar of ourselves as scientists, and explore the lab during a scavenger hunt- the Living Lab is a cool place, I could see myself returning here after the Bridge program!

We spend the next three days investigating invertebrates. We learn what invertebrates are, and explore the rocky seashore to see and touch them. I see everything from a squishy sea anemone to a sea star with hundreds of tube feet – cool! We investigate adaptations invertebrates have to help them survive at the rocky seashore and in the canyon and talk with a scientist who does research to help conserve invertebrates. We each come up with our own tweet about why it is important to protect these animals to share with family and friends.

Next, we move on to investigating fish. We focus on two types- bony fish and cartilaginous fish. We learn about these fish by dissecting both a shark and a bony fish- so cool! We take a trip to the Birch Aquarium to explore how fish from different places are adapted to live in the ocean, and then we visit the Living Coast Discovery Center and get to touch living sharks – amazing! We also talk to a science leader about how to help protect sharks and fish and write another conservation tweet to share with family and friends.

Finally, we study marine mammals. We learn about the unbelievable range of shapes and sizes marine mammals come in when we build a life-size mural of marine mammals with chalk – did you know that blue whales are as large as a school bus?! We do a series of experiments to see how different types of marine mammals are adapted to eat and to live in the ocean and on land – so fun! We get to interview another science leader about her work with conserving marine mammals and then learn how to do similar DNA tests that she uses in her research ourselves – I feel like a real scientist!

Throughout the program, I also learn skills that will be helpful in high school and college. I learn how to create concept maps from lecture notes and how to turn these notes into flashcards – a great tool for studying! I also have the opportunity to attend office hours with mentor scientists – I learn this is a great opportunity to ask questions and clarify things I don't understand during the day. It makes me think about how I could take advantage of talking to my teachers after class when I don't understand something next year.

Wow-what an amazing two weeks! I learned so much about science and myself as a future science leader! I can't wait to go back!

MENTORING

Mentors

- Be sure there is at least one adult per table for all activities.
- Participate in all activities.
- Encourage inclusion and participation among students.
- During Food & Conversation you have a **Mentoring opportunity**.
 - Be sure to share something about yourself related to the Community Question and ask students follow up questions related to their responses.
 - Ex. Who prepares that food in your family?
 - Ex. I've never eaten that, can you tell me what's in it?
 - Ex. Is there a day of the week or special time of the year when you have that food?
 - Ex. What other foods do you enjoy?
- During the Curiosity Card Activity you have a **Mentoring opportunity**.
 - Be sure to take a turn with the curiosity card and share about yourself.
- During Announcements all mentors will have the opportunity to introduce themselves. This is meant to be very brief, 2-3 sentences per person.
 - Your name and school you currently attend or graduated from.
 - Current career and employer.
 - Former experience with Ocean Discovery Institute (if any).
 - Ocean Discovery alumni (say which programs you participated in.)
 - Previous programs you have participated in as a mentor or other.
- **Always be thinking about ASC – Accountability-Safety-Communication.**

VOLUNTEER CURRICULUM CONTENT

Shift	Curriculum Pages
1	10-20, 47-77
2	21-28, 78-107
3	29-35, 108-126
4	36-42, 127-156



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QUESTIONS?
jvance@oceandi.org