# *OCEAN EXPERT EXCHANGE* EDUCATOR RESOURCES

**TOPIC –** ***Finding Your Future At Sea***

**FEATURED EXPERT –** ***Michele Hoffman Trotter***

## RELATED LEARNING STANDARDS

**OCEAN LITERACY PRINCIPLES -** **Principle #6**: The ocean and humans are inextricably interconnected.
**Principle #7**: The ocean is largely unexplored.

**NEXT GENERATION SUNSHINE STATE STANDARDS -**

**SC.1-4.N.1.1:** Raise questions about the natural world, use appropriate reference materials that support understanding to obtain info., investigate them in teams through free exploration, and generate…

**SC.35.CS-CC.1.3:** Identify ways that technology can foster teamwork, and collaboration can support problem solving and innovation.

**SC.4.L.17.4:** Recognize ways plants and animals, including humans, can impact the environment.

**SC.6.N.2.3:** Recognize that scientists who make contributions to scientific knowledge come from all kinds of backgrounds and possess varied talents, interests, and goods.

**SC.7.N.1.5:** Describe the methods used in the pursuit of a scientific explanation as seen in different fields of science such as biology, geology, and physics.

**SC.8.N.4.1:** Explain that science is one of the processes that can be used to inform decision making at the community, state, national, and international levels.

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

**SC.8.E.5.10:** Assess how technology is essential to science for such purposes as access to remote locations, sample collection, measurement, data collection and storage, computation, and communication…

**SS.8.FL.1.1:** Explain that careers are based on working at jobs in the same occupation or profession for many years. Describe the different types of education and training required by various careers.

**SS.8.FL.1.2:** Identify the many decisions people must make over a lifetime about their education, jobs, and careers that affect their incomes and job opportunities.

**SS.912.FL.2.3:** Analyze the ways that people can make more informed education, job, or career decisions by evaluating the benefits and costs of different choices.

## SUPPLEMENTAL RESOURCES

- Video Shorts – Microcosm Meet Michele Hoffman Trotter Video 1 and Video 2 (Grades 6-12)
- Infographic – NOAA Ocean Exploration A Sea of Possibilities | See Yourself as an Ocean Explorer (Grades 4-12)
- Readings – NOAA Ocean Exploration Ocean Exploration Career Profiles (Grades 5-12)
- Resource Library – NOAA Ocean Exploration Deep Ocean Education Project | Ocean Careers (Grades 6-12)
- Reading – Current A Closer Look at Ocean Careers through the NOAA Ship Okeanos Explorer… (Grades 8-12)
- Readings – ANGARI Foundation Scientist Profiles (Grades 6-12)
- Lessons – Joides Resolution Careers At Sea | Conducting Science on the Joides Resolution (Grades 5-12)
- Resource Library – Encounter Edu The Ocean Planet and Frozen Ocean Curriculums (Grades 2-12)
- Infographic – NOAA Ocean Explorers Why Do We Explore the Deep Ocean? (Grades 7-12)
- Resource Library – NOAA Ocean Exploration How Do We Explore? Education Materials Collection (Grades 5-12)
- Lesson – NOAA Ocean Exploration (Grades 9-12)
- Lessons – Microcosm/M. Hoffman Trotter Food Web, Biodiversity, Climate Change Edu. Resources (Grade 6-12)
- Videos – NOAA Ocean Exploration Educational Resources Videos (Grades 8-12)