

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

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...

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)
- Resource Library – Schmidt Ocean Institute [Careers At Sea](#) (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)
- Programs/Resource Library – U.S. Dept. of Homeland Security [U.S. Coast Guard Auxiliary & Youth](#) (Grades 2-12)
- Programs/Resource Library – NOAA [Ocean Guardian Programs](#) (Grades K-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 Curriculum](#)s (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)
- Videos – NOAA Ocean Exploration [Educational Resources Videos](#) (Grades 8-12)
- Lessons – Microcosm/M. Hoffman Trotter [Food Web, Biodiversity, Climate Change Edu. Resources](#) (Grade 6-12)
- Activity – University of Alaska Fairbanks [Food Web Virtual Field Trip](#) (Grades 6-12)