OCEAN EXPERT EXCHANGE EDUCATOR RESOURCES

TOPIC – ***Day in the Life of Great Hammerhead Sharks***

FEATURED EXPERT – ***Erin Spencer of Florida International University***

RELATED LEARNING STANDARDS

OCEAN LITERACY PRINCIPLES -

Principle #5: The ocean supports a great diversity of life and ecosystems.

Principle #6: The ocean and humans are inextricably interconnected.

NEXT GENERATION SUNSHINE STATE STANDARDS -

SC.4.N.1.3: Explain that science does not always follow a rigidly defined method ("the scientific method") but that science does involve the use of observations and empirical evidence.

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.N.1.5: Recognize that science involves creativity, not just in designing experiments, but also in creating explanations that fit evidence.

CTE-TECED.68.ENTECH.05: Demonstrate an understanding of the relationships among technologies and the connection between technology and other fields of study.

CTE-TECED.68.ENTECH.12: Demonstrate an understanding of the role of troubleshooting, research and development, invention and innovation, and experimentation in problem solving.

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.912.N.1.1: Define a problem based on a specific body of knowledge; pose questions, conduct systematic observations, examine books and other sources of information to see what is already known, review what is known in light of empirical evidence, plan investigations...

SC.912.N.1.6: Describe how scientific inferences are drawn from scientific observations and provide examples from the content being studied.

SC.912.N.1.7: Recognize the role of creativity in constructing scientific questions, methods and explanations.

SUPPLEMENTAL RESOURCES

- Reading - ANGARI Foundation Meet Erin Spencer (Grades 5-12)
- 3D Model & Video Short - ANGARI, Digital Life & VRTUL Great Hammerhead Shark 3D Model (Grades K-12)
- Reference - Georgia Aquarium Animal Guide: Great Hammerhead Shark (Grades 4-12)
- Reference - IUCN Red List of Threatened Species Great Hammerhead (Grades 6-12)
- Reference - NOAA Fisheries Shark Conservation (Grades 6-12)
- Reading - Centre for Biological Studies of Chizé What is Bio-logging? (Grades 6-12)
- Documentary - National Geographic World's Biggest Hammerhead?, Clip & Newsweek Article (Grades 4-12)
- YouTube Video Playlist - Nat Geo Kids Shark Videos: Did you know? (Grades K-12)
- 360 Video - BBC Earth Unplugged Hammerhead Sharks 360° | #OurBluePlanet (Grades K-12)
- 360 Video - National Geographic 360° Great Hammerhead Shark Encounter (Grades K-12)
- 360 Video - National Geographic Swimming with Hammerhead Sharks (Grades K-12)
- 360 Video/Virtual Field Trip - ANGARI Foundation Generation Ocean: Sharks (Grades K-12)
- Lesson - Cabrillo Marine Aquarium Shark Biology, Bingo & other JAW-some Shark Activities (Grades K-3)
- Lesson - Monterey Bay Aquarium Shark Anatomy (Grades 3-5)
- Resource Library - Sharks4Kids 4 Teachers & 4 Students (Grades K-12)