Course Selections

SEA ME READ VIRTUAL/OUTREACH/CLASSROOM

Embark on an exciting reading adventure together about sea turtles and some of the challenges they come across. We will read a book together with your class and opportunities to discuss our favorite parts, predict what might happen next and so much more. Books are also available to purchase to keep in your classrooms.

There are three book options:

1. "Turtle Trips" The tale of a green turtle and his life in the bay
   - Written and Illustrated by Sue Trew.
   a. Read about the sea turtle "Gus" and his every day adventures. Learn about how his life is being affected by many of the problems that are facing our oceans.

2. "Happy Hatchlings" The tale of six happy hatching turtles.
   - Written and Illustrated by Sue Trew.
   a. Follow the adventures of 6 hatchling sea turtles as they emerge from their sandy nest and leave to explore our large oceans. Who will they meet and what will they see?

3. "Yoshi and the Ocean" A Sea Turtle’s Incredible Journey
   - By: Lindsay Moore
   a. Based on a true story of a loggerhead sea turtle named Yoshi, who was released back into the wild and swam for days, for weeks, for months, for years across the wide ocean.

- NC State English language arts and science standard(s):
  - Kindergarten
    • RL.K.3: with prompting and support, identify characters, settings, and major events.
    • SL.K.2: Confirm understanding of a text read aloud or information presented orally or through other media by asking and answering questions about key details and requesting clarification if something is not understood.
  - 1st Grade
    • RL.1.1: Ask and answer questions about key details in a text.
    • RL.1.3: Describe characters, setting and major events in a story using key details.
    • RI.1.1: Ask and answer questions about key details in a text.
    • RI.1.2: Identify the main topic and retell key details of a text.
    • LS.1.1: Understand the basic needs of a variety of plants and animals in different ecosystems.

- Next generation science standard(s):
  - Kindergarten
    • K-LS1-1: Use observations to describe patterns of what sea turtles need to survive.
    • K-ESS3-3: Communicate solutions that will reduce the impact of humans on sea turtle populations.
  - 1st Grade
    • 1-LS1-2: Read texts and use media to determine patterns in behavior of parents and offspring of sea turtles that help offspring survive.
Welcome to the enchanting world of North Carolina sea turtles and the incredible work of the Karen Beasley Sea Turtle Rescue and Rehabilitation Center! In this course, we will embark on a captivating journey to explore the various types of sea turtles that call the North Carolina coastline their home and discover the vital role played by the rescue center in their conservation. As we explore the different sea turtle species, we’ll learn about their unique characteristics, nesting behaviors, migratory patterns, and the challenges they face in their natural habitats. But our journey doesn’t end there. We’ll also delve into the heartwarming work of the Karen Beasley Sea Turtle Rescue and Rehabilitation Center. This remarkable organization has been a beacon of hope for injured and sick sea turtles, providing them with expert care, nurturing, and rehabilitation. We’ll learn about the dedicated team of professionals and volunteers who work tirelessly to rescue, heal, and release these majestic beings back into the wild.

- **NC state science standard(s)**
  - Kindergarten
    - PS.K.1: Understand how objects are described based on their physical properties and how they are used.
    - PS.K.2: Understand the positions and motions of objects and organisms observed in the environment.
  - 4th Grade
    - LS.4.1: Understand the effects of environmental changes, adaptations, and behaviors that enable organisms to survive in changing habitats.
  - 5th Grade
    - LS.5.3: Understand some characteristics of an organism are inherited and other characteristics are acquired.

- **Next Generation Science Standards**
  - Elementary School
    - ESS3.C: Human Impacts on Earth Systems: Introduce the idea that human actions can affect the lives of sea turtles, such as pollution or litter that can harm their habitats.
  - Middle School
    - MS-LS1-4: Use argument based on empirical evidence and scientific reasoning to support an explanation for how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.
  - High School
    - HS-LS2.A: Interdependent Relationships in Ecosystems: Explore the complex interactions between sea turtles and their habitats, including their role in maintaining ecosystem balance.
    - HS-LS2.C: Investigate how sea turtle populations can serve as indicators of ecosystem health and discuss the implications of their decline.
    - HS-LS4.D: Biodiversity and Humans: Examine the impact of human activities on sea turtle populations, biodiversity, and ecosystem services, and discuss conservation strategies.

- **Next Generation Science Standards (Crosscutting concepts)**
  - Patterns: Discuss the patterns in sea turtle life cycles, their behaviors, and habitats, helping students recognize similarities and differences.
  - Cause and Effect: Introduce the concept of how actions like pollution or getting caught in fishing gear can affect sea turtles’ lives.
  - Scale, Proportion, and Quantities: Help students understand the size and scale of sea turtles compared to themselves and other animals.
  - Structure and Function: Discuss basic features of sea turtles, such as their shells, flippers, and adaptations that help them survive.
Welcome to our lesson on sea turtle strandings! In this short and informative session, we'll become marine biologists and explore the intriguing phenomenon of sea turtle strandings. We will learn what it means when a sea turtle is stranded, and the crucial steps we can take to help these remarkable creatures when they find themselves in distress. Join us as we delve into the world of sea turtle strandings and discover how we can be advocates for their well-being and conservation.

- NC state science standard(s)
  - LS.Bio.4: Engage in argument from evidence to evaluate various solutions to reduce the impact of human activities on biodiversity.
- Next Generation Science Standards
  - Elementary
    - LS1.A: Structure and Function: Discuss sea turtles physical characteristics that help them survive in their environment.
    - LS2.C: Ecosystem Dynamics, Functioning, and Resilience: Explain how sea turtles are part of marine ecosystems and how their presence or absence can impact these ecosystems.
  - Middle School
    - MS-LS2.A: Interdependent Relationships in the Ecosystems: Investigate the role of sea turtles in marine ecosystems, their interactions with other organisms, and the impacts of their strandings on these ecosystems.
  - High School
    - HS-LS2.A: Interdependent Relationships in Ecosystems: Investigate the intricate relationships between sea turtles and other species in marine ecosystems, analyzing how strandings can disrupt these relationships.
    - HS-LS2.C: Ecosystem Dynamics, Functioning, and Resilience: Dive into the concept of ecological resilience and explore how sea turtle strandings can impact ecosystem stability and recovery.
    - HS-LS4.D: Biodiversity and Humans: Discuss the role of human activities, including pollution, habitat destruction, and climate change, in sea turtle strandings and the broader effects on biodiversity.
- Next Generation Science Standards (cross-cutting concepts)
  - Patterns: Help students identify patterns in sea turtle behaviors, migration, and strandings to understand potential causes.
  - Cause and Effect: Explore the cause-and-effect relationship between human activities and sea turtle strandings.
  - Stability and Change: Discuss the stability of marine ecosystems and how sea turtle strandings can be considered indicators of change.
In this exciting course, we will dive deep into the captivating world of sea turtles and their incredible adaptations that have allowed them to survive and thrive in the vast oceans for millions of years. Get ready for an educational journey as we explore the secrets of these ancient mariners and discover how they have evolved to conquer the challenges of their aquatic habitats. From shell design to navigation skills, join us on the “turtle Trek” to unveil the remarkable adaptations of sea turtles!

- NC State science standard(s)
  - LS.4.1: Understand the effects of environmental changes, adaptations, and behaviors that enable organisms to survive in changing habitats.
  - LS.8.3: Understand the evolution of organisms over time based on evidence and processes.
  - LS.Bio.9: Understand natural selection as a mechanism for biological evolution.

- Next Generation Science Standards
  - Elementary School
    - LS1.A: Structure and function: Introduce the concept that animals like sea turtles, have different body parts that help them survive in their environments.
  - Middle School
    - MS-LS1.A: Structure and Function: Explore how different sea turtle adaptations, such as their flippers, shells, and respiratory systems, help them survive in their environments.
  - High School
    - HS-LS1.A: Structure and Function: Explore the anatomical, physiological, and behavioral adaptations of sea turtles that allow them to survive in their diverse habitats and fulfill specific roles within ecosystems.
    - HS-LS2.A: Interdependent relationships in Ecosystems: Investigate how sea turtle adaptations contribute to their interactions with other species and their roles within marine ecosystems.

- Next Generation Science Standards (crosscutting concepts)
  - Patterns: Identify patterns in sea turtle adaptations across different species and habitats, and discuss how these patterns help them adapt to specific environmental conditions.
  - Cause and Effect: Explore the cause-and-effect relationships between environmental factors, natural selection, and the development of particular adaptations in sea turtles.
  - Structure and Function: Examine how specific adaptations of sea turtles, such as their streamlined bodies or specialized diets, serve particular functions.
More courses to come!

If you have a subject you’d like to have covered, please contact us!

For more information please contact Kimberly Escalante at education@seaturtlehospital.org or to schedule a program, please fill out the following form.