



**Marine CSI:
Coastal Science
Investigations**

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Marine CSI Girl Scout Activity Descriptions

Daisies (K-1)

◆ Animal Observer

- **Baleen In-Between** – Whales feed differently from each other, and through this water-based activity, scouts demonstrate these feeding techniques to better observe their chance of survival. (water component) FULL BADGE

◆ Daisy STEM Career Exploration Badge

- **Elasmo-Craze** – Scouts get to be archaeologists, learning how digging for fossils and shark teeth helps scientists understand life on earth better. They learn the differences between bony and cartilaginous fish. FULL BADGE

◆ Eco Learner Badge

- **OUTDOOR HIKE** – Explore the environment close to home and learn how plants and animals interact and survive together naturally. Scouts describe ways they can protect nature, keep living things safe, and pick up trash on this local hike. FULL BADGE

◆ Math in Nature 3: Design with Nature

- **Surveying My Surroundings** – Explore the environment close to home through a scavenger hunt describing parts of nature. Scouts also understand what plants and animals need to survive so that they can return to the environment and create of map of what they observed. PARTIAL BADGE #1-2

◆ The NC Coast Patch Program

- **OUTDOOR HIKE** – Explore the NC coast in full with a marsh hike and discover how barrier beaches protect the mainland. FULL PATCH

Brownies (2-3)

◆ Brownie STEM Career Exploration Badge

- **POSSIBLE SEA TURTLE HOSPITAL TOUR** – Explore how being a wild animal veterinarian inspires a career path in conservation. Tours of the Karen Beasley Rescue and Rehabilitation Hospital in Surf City are outside normal visiting hours and will be privately arranged. PARTIAL BADGE #1-3

◆ Eco Friend Badge

- **OUTDOOR HIKE** – Explore the environment at a hike at one of Pender County's Parks and learn how plants and animals interact and survive together naturally. PARTIAL BADGE #2

◆ Outdoor Adventurer

- **Incredible Journey** – Water travels from the sky to the ground and back in a cycle around the world. Scouts follow this cycle by playing a buddy game from station to station as "water droplets." Then they explore nature with water in mind. PARTIAL BADGE #1-3

◆ Senses Badge

- **OUTDOOR HIKE** – Explore the environment of the NC coast and learn how plants and animals interact and survive together naturally. This badge coincides with the NC Coast Patch Program. FULL BADGE

◆ Amphibians and Reptiles Patch Program

- **Turtles, Turtles, Everywhere** – Three different turtle species, three distinct coastal habitats. Scouts discover who lives where through a series of clues based on predators, prey, and nest locations. They then create informative posters about turtle species and water quality. (craft/art component) FULL PATCH

◆ The NC Coast Patch Program

- **OUTDOOR HIKE** – Explore the NC coast in full with a marsh hike and discover how barrier beaches protect the mainland. FULL PATCH

Juniors (4-5)

◆ Animal Habitats Badge

- **Sea Level is On the Rise *(LIMITED ON SUPPLIES)*** – Sea levels along the coast are rising at an alarming rate and nesting habitats for birds and turtles are disappearing fast. Scouts demonstrate how long their marsh habitats will survive an increase in sea level rise. (water component) PARTIAL BADGE #1, 2, 4

◆ Junior STEM Career Exploration Badge

- **Animal S.O.S./Possible Sea Turtle Hospital** – Activity option or field trip option. Let's role play as wildlife rescuers and rehabilitators in this interactive activity, where scouts work together in rescue teams to learn what care injured and sick marine species need. They will then take what they learn and design wildlife protection posters. (craft/art component) PARTIAL BADGE #1-3

◆ Math in Nature 1: Shapes in Nature

- **OUTDOOR HIKE** – Explore the environment close to home and learn about different types of symmetry found in nature, including bilateral (or mirror/reflective). PARTIAL BADGE #1-2

◆ Sea Turtles Patch Program

- **SEVERAL ACTIVITIES COMBINED** – FULL PATCH
- **Alternate Route** – Find the best way to save sea turtles at every stage of their life cycle from hatchling to adult. Discover how humans have been impacting their populations in both positive and negative ways. (craft/art component)
- **Mighty Migrations** – Follow the trans-Atlantic migrations of birds and mammals as they feed and avoid harm from human interactions in this interactive migration game. Can species survive the long voyage?
- **Sea Turtle Salvation** - Sea turtles can become injured or sick due to human interactions, and as wildlife rehabilitators, scouts learn how to diagnose and properly care for these injuries or diseases.

◆ The NC Coast Patch Program

- **OUTDOOR HIKE** – Explore the NC coast in full with a marsh hike and discover how barrier beaches protect the mainland. FULL PATCH

Cadettes (6-8)

- ◆ **Cadette STEM Career Exploration Badge**
 - **Sea Turtle Salvation** – Sea turtles can become injured or sick due to human interactions, and as wildlife rehabilitators, scouts learn how to diagnose and properly care for these injuries or diseases. PARTIAL BADGE #1-3
- ◆ **Eco Trekker Badge**
 - **OUTDOOR HIKE** – Explore the environment close to home and learn how plants and animals interact and survive together naturally. PARTIAL BADGE #1-4
- ◆ **Finding Common Ground**
 - **A Diplomatic Island** – Let's have a civil debate! Scouts work in teams to decide best management practices on a barrier island and within a community of stakeholders, understanding the meaning of compromise. FULL BADGE
- ◆ **Sea Turtles Patch Program**
 - **Sea Turtle Salvation/Possible Sea Turtle Hospital Tour** – Sea turtles can become injured or sick due to human interactions, and as wildlife rehabilitators, scouts learn how to diagnose and properly care for these injuries or diseases. Tours of the Karen Beasley Rescue and Rehabilitation Hospital in Surf City are outside normal visiting hours and will be privately arranged. FULL PATCH
- ◆ **The NC Coast Patch Program**
 - **OUTDOOR HIKE** – Explore the NC coast in full with a marsh hike and discover how barrier beaches protect the mainland. FULL PATCH

Seniors (9-10)

◆ Eco Explorer Badge

- **Beakology Decoded** – Migrating shorebirds all have unique beaks that best serve them in finding the right food. Scouts engage in this lively activity to discover which beach is designed for which prey species. PARTIAL BADGE #1-3

◆ Senior STEM Career Exploration Badge

- **Sea Turtle Salvation** – Sea turtles can become injured or sick due to human interactions, and as wildlife rehabilitators, scouts learn how to diagnose and properly care for these injuries or diseases. PARTIAL BADGE #1-3

◆ Amphibians and Reptiles Patch Program

- **It's Getting Hot in Here** – Global temperatures are rising and that has long-term effects on gender ratios of sea turtle species. In this experiment, scouts excavate sea turtle nests to describe these ratio changes as temperatures continue to rise. (math component) PARTIAL PATCH

◆ The NC Coast Patch Program

- **OUTDOOR HIKE** – Explore the NC coast in full with a marsh hike and discover how barrier beaches protect the mainland. FULL PATCH

Ambassadors (11-12)

◆ Ambassador STEM Career Exploration Badge

- **Marine CSI** – There was a crime committed and a major ecosystem has been destroyed! Scouts work together as investigators through a series of clues to discover who the culprit is. A discussion into careers in wildlife management and environmental investigations will follow the activity. PARTIAL BADGE #1-3

◆ Eco Advocate Badge

- **A Diplomatic Island** – Let's have a debate! Scouts work in teams to decide best management practices on a barrier island and within a community of stakeholders. PARTIAL BADGE #1-4

◆ Public Policy

- **A Little Crab on a Big Decline** – The blue crab is part of a large fishing industry in NC, and as fishers, scouts learn how the industry is managed during times of natural disasters and harvesting seasons. They begin to understand why certain policies are put in place and how those policies can change over time. PARTIAL BADGE #1-2

◆ Water Badge

- **Sum of the Parts** – Scouts role play in this watershed game, understanding how to manage pollution through land use regulations and best practices in a local coastal ecosystem. PARTIAL BADGE #1-4

◆ Amphibians and Reptiles Patch Program

- A choice of two different activities. PARTIAL PATCH
- **Sea Turtle Salvation** – Sea turtles can become injured or sick due to human interactions, and as wildlife rehabilitators, scouts learn how to diagnose and properly care for these injuries or diseases.
- **It's Getting Hot in Here** – Global temperatures are rising and that has long-term effects on gender ratios of sea turtle species. In this experiment, scouts excavate sea turtle nests to describe these ratio changes as temperatures continue to rise. (math component)

◆ The NC Coast Patch Program

- **OUTDOOR HIKE** – Explore the NC coast in full with a marsh hike and discover how barrier beaches protect the mainland. FULL PATCH