



Nautical Museum Sponsorship Opportunities

For Grade 4

Young Explorers: Discovering California By Sea

This adventure is among the students' most educational and engaging field trips. Early new world explorers faced such problems as determining their location with latitude and longitude coordinates because of inaccurate maps. Our 4TH grade "explorers" will embark by boat on their mapmaking quest in Newport Harbor to compare the present-day harbor with the Museum's collections of historical photographs to document how the area has grown. Then, in the Museum's Model Gallery, students will learn about vessels such as Chumash canoes, Spanish galleons, and Gold Rush schooners used by explorers sailing to California in the 1800s.

Secrets of Skeleton Cove: History Comes "Alive" Off the California Coast

This exciting and enriching marine archaeology experience brings students' in-class studies to life. When the students arrive at the museum, they are informed that a discovery has been made under water and that their assistance has been requested in an artifact recovery effort. The students board a vessel and sail to "Skeleton Cove" and into this thrilling and adventurous investigation in California nautical and maritime history. The investigations are based on the Gold Rush, the cattle hide and horn traders and their relationship with Mexican ranchos, coastal Indians and their relationship with the Spanish missions and the pirates who stalked their prey on the sea near the California coast. Students recover artifacts and other materials and analyze them to tell a story that makes history come alive.



For Grade 5

Shark Safari

Are sharks cold calculating killers or incredibly successful survivors in an increasingly hostile world? Do they deserve our respect and protection if not our affection? This brilliant educational experience is designed to provide insights about sharks' anatomy and physiology as well as their behavior. Students will journey into shark natural history, fossil record and conservation during this fascinating experience. They will learn about Pacific cultures that respected and revered sharks. A shark anatomy demonstration provides insights into the success of this fish group over millions of years. Labs feature sorting marine fossil material that yields teeth from prehistoric California sharks. Students keep all the teeth and fossil remains they find in the matrix. Students also identify sharks by bite mark patterns made by mechanical jaw models.

Mystery from the Equator: Maritime Forensic Detectives

When it comes to exhilarating and challenging experiences, it's difficult to top this. An international smuggling scheme has been uncovered, and our student detectives go to work to solve the mystery. It all begins when a communication from a police agency overseas notifies the U.S. Coast Guard that a shipment of stolen treasures from a museum is heading to the southern California coast, where a buyer is waiting to obtain the goods. Students analyze all kinds of evidence from routes and locations on navigation charts to coded messages, shipwrecks and mummified remains, piracy, kidnapping and ransom. They also analyze missing museum property, fingerprints, ballistics and DNA to make connections and find meanings.

While in the process of solving the case, our students become forensic "experts" in map and chart reading, countries and cultures from which the stolen treasures originated, jewels and gemstones, world geography, foreign and ancient languages, codes, shipwrecks and laws pertaining to these crimes. Students will also explore enforcement agencies, careers in maritime security and other topics of interest and relevance. At trial, students present their case against the offending parties and level penalties according to the law. This experience is CSI on the high seas.



For Grade 6

Surf's Up: Waves, Tides and Beaches

An eternal conflict rages every day in every place where the land meets the sea. Sometimes the sea wins a battle; other times the land, but neither ever wins the war. What is the relationship between the surf and the beach? Under what conditions does the sea have the advantage and when does the land?

Students use literary sources and conduct a series of experiments to begin to understand these complex relationships. A special lab also gives students an opportunity to learn about and solve problems related to extreme waves such as rogue waves and seismic sea waves (tsunamis). In the field, students will visit the beach to witness and observe this land and sea struggle first hand. They will take measurements, interpret data and form plans to safeguard communities and commerce.

Polar Bears, Penguins and People: Climate's Call to Action

How big is YOUR carbon footprint and how does it connect and affect the oceanic world around you and how might you be affected by it in the climate future?

The phenomenon has been given several names: global climate change, global warming and global climate warning. The last time mankind faced a radical climate shift was the last Ice Age 10,000 years ago. The current trend of accelerated warming is believed to be of our own making, unlike the last major climate shift. Polar ice-cap melting, sea-level rise, effects on coral reefs, sea surface temperature/El Nino, coastal flooding, severe storms, creation of more desert areas and droughts, and extinctions of life forms are a few of the consequences that are predicted if the climate is indeed warming.

Placing blame is not productive, so as future leaders, our students focus on innovative solutions as they reduce the carbon footprint the size of Big Foot to one of Twinkle Toes.



Grades 4 through 12

Whale of a Day: Whales and Marine Mammals

This experience features a captivating up-close and natural investigation of some of the largest creatures on Earth. The day begins with hands-on interactive activities that focus on:

- Diversity and natural history of several modern whales that cruise the California coast;
- The origin and fossil record of whales and prehistoric marine mammals;
- California's historic whaling tradition and industry;
- Modern efforts to conserve these magnificent creatures.

A whale watching field trip on the open ocean enables students to encounter migrating Pacific gray whales, sea lions and several species of dolphin. An innovative classroom-based extension of this experience invites students to develop exhibits and serve as gallery interpreters as their school's *Whaling Museum* opens its doors to visitors. Students have a choice to develop and present exhibits four galleries: "Whale and Marine Mammal Adaptations and Diversity"; "Origins and Development of Whales"; "Pacific Whaling History and Traditions"; and "Marine Mammal Protection and Conservation."