



EDUCATIONAL PROGRAM GUIDE

Homeschool Fieldtrips

The Mariners' Museum offers a variety of educational fieldtrips for homeschool students. Each program runs approximately an hour in length, with an additional hour for a related Museum tour. The cost for a fieldtrip is \$8 per student/chaperone, with a minimum of 10 students per group. However, for every 10 students, 1 chaperone will be admitted free of charge. Groups bringing 25 or more students will only be charged \$7.50 per student/chaperone.

Reservations are required and are booked on a first-come, first-served basis. To schedule a program, please contact Melissa Flaherty at (757) 591-7744 or e-mail SchoolPrograms@MarinersMuseum.org.

Maritime History

Age of Exploration

This popular program takes students on an imaginative journey through time. They will explore an era when cartographers were still mapping the world and mariners were discovering new landmasses, thus fueling the desire for knowledge and riches. Museum educators will lead discussions about the economic and cultural life of the Old World, present spices for hands-on examination, and discuss the importance of these spices to those cultures. Other factors that accelerated the interest in exploration are also examined, including advancements in using navigational equipment. Students will see and handle navigational instruments spanning the period from ancient times to the golden age of sail.

First through twelfth grade

Captive Passage

This interactive program will help students discover how the institution of black slavery shaped the history, culture, and commerce of four continents over the course of five centuries, and how its impact is still felt today. Drawing heavily on primary source material, students will identify the economic, cultural, and racial origins of the slave trade. Firsthand accounts of the slave trade by enslaved Africans, slave traders, and abolitionists will give students the chance to explore the human side of this "peculiar institution." Through the use of maps and other teaching materials students will examine the Triangle Trade and gain a better understanding of the role slavery played in the development of the Americas.

Fifth through twelfth grade

Clash of Armor

The development of ironclad ships during the American Civil War was a technological advancement that would forever change the face of naval warfare. Using artifacts from the USS *Monitor* and the CSS *Virginia*, Museum educators will introduce students to the development of ironclad ships and history's first ironclad-to-ironclad battle. Students will also be introduced to the *Monitor* National Marine Sanctuary and discover how the wreck site is being excavated and how artifacts are being recovered and conserved at The Mariners' Museum.

Fourth through twelfth grade

The Great Exchange

When Columbus sighted land in 1492, he had no idea of the impact European plants, animals, and diseases would have on the native species of the Americas. In return, animals and foods from the New World changed life for those in the Old. Imagine a time without chocolate! That was one of the items traded between two worlds in the Great Exchange. This program examines the different kinds of exchanges made and how they impacted the cultures and lives of the people from 1492 to today.

Third through eighth grade

Life at Sea

This exciting program literally opens a sailor's sea chest and allows students to investigate items that would have been carried and used by a typical 19th-century sailor. Students will discover items such as clothing, food, eating utensils, tools, and musical instruments. They will also learn about a sailor's daily life, including what type of work he did while living aboard ship.

Kindergarten through fourth grade

Lighthouse Lore

Explore the role that lighthouses have played in helping ships safely navigate the waterways. Learn what it was like to be a lighthouse keeper and how lighthouse design and technology has changed through the ages. Lighthouses from around the Chesapeake Bay and along the coastlines of the United States will be explored in this enlightening program that uses both gallery artifacts and stories of famous lighthouses.

Kindergarten through third grade

Pirates

This program introduces students to the lives and adventures of the pirates—the men and women that raided ships on the high seas in search of treasure! Students will examine some of the reasons for piracy, the myths and lore of pirates, and the history of piracy. Typical pirate weapons and examples of the money used during this period are presented, as well as slides of pirates and their signature flags.

First through twelfth grade

Riding in a Log Canoe

Before the English reached the shores of Virginia, our area was inhabited by a thriving culture of Native Americans. With the interpretation of artifacts and gallery exhibits, your class can explore the world of the Powhatans. Students will examine their methods of travel, trade, hunting, and fishing, as well as learn about the daily lives of men, women, and children in Powhatan society.

Kindergarten through fourth grade

Sailing into Thanksgiving

Leaving England for the New World, the Pilgrims sailed across the ocean on their small ship the *Mayflower*. Join us in learning about life on board the *Mayflower*, how the ship moved, about the Pilgrims and their life in America, and what inspired the Pilgrims to celebrate a feast of Thanksgiving. Students will learn a Thanksgiving song and have an opportunity to make a miniature *Mayflower*.

Kindergarten through third grade

Titanic: Fortune & Fate

The moving stories of the *Titanic's* passengers and crew are told using visual images and hands-on reproduction items. Students will examine the ill-fated ship, the lives of the people onboard her, and the events surrounding her 1912 sinking.

Fifth through twelfth grade

On the Chesapeake Bay

The Bay Way

This program is designed to give students an overall view of the Chesapeake Bay. The history, geography, economic development, and industrial growth of the Bay are all explored through an examination of specialized occupations and artifacts.

Kindergarten through seventh grade

Blue Crabs of the Chesapeake Bay

The Chesapeake blue crab has a complex life cycle. From hatching to death, the blue crab takes on many forms, each with its own special needs. Students will become acquainted with the biology of the blue crab and its role in the Chesapeake Bay ecosystem. To enhance their understanding of the blue crab, students will be invited to examine and handle specimens of this crustacean. (Due to the seasonal availability of blue crabs, this program is offered April through October only.)

Kindergarten through fourth grade

Maritime Science

Buoyancy: What Makes a Boat Float?

What are the properties of water that help a boat to float? How do hull design and construction factor into seaworthiness? This educational program focuses on the science of buoyancy and utilizes construction skills to assess the students' ability to make a boat float. Identification of hull designs and construction techniques by means of a small craft scavenger hunt round out the class.

Fifth through eighth grade

Lake Maury Study: the Ecology of a Woodland Lake

Take a walk through the woods to the banks of an oasis in our urban setting. Examine the ecology of a fresh water lake and the many different types of plant and animal life that flourish there. Water testing, plant identification, and nature observation all help in furthering our appreciation of the lake. This program emphasizes environmental diversity, ecosystems, and the food chain.

Third through eighth grade

Messages on the Waves: Tides and Currents

Ocean currents and tides affect our weather, travel at sea, and the movements of marine life. They can also have an effect on our ability to communicate. Explore the motion of the ocean as we examine the currents and tides, the factors that influence them, and how people have put them to use for commerce and communication.

Fourth through eighth grade

Big Winds, Big Waves: The Science of Hurricanes

This science-based program explores the forces behind the development of hurricanes and tropical storms. Students will examine the history of these killer storms; learn how to track a hurricane; and participate in experiments and activities designed to aid their understanding of a hurricane and how it affects life on our coastal regions.

Fourth through twelfth grade

Thar She Blows!

This informative program offers students a chance to learn more about those giants of the deep and the people who chased them. Using hands-on items, charts, and handouts, students will learn about the various types of whales, their migratory movement, and background information on why they were hunted. They will also explore life aboard a whaling ship and see the tools used to hunt whales.

Kindergarten through fourth grade

The Chemistry of Conservation

Join conservators from The Mariners' Museum as they introduce students to the chemistry of conservation. Using examples from the USS *Monitor*, students will learn how chemistry is used to conserve metal and organic objects found in a marine archaeological environment. Hands-on experiments that utilize the scientific method as well as a tour of the wet and dry labs of the Batten Conservation Facility at The USS *Monitor* Center will provide your students with examples of real-life chemistry applications.

Ninth through twelfth grade