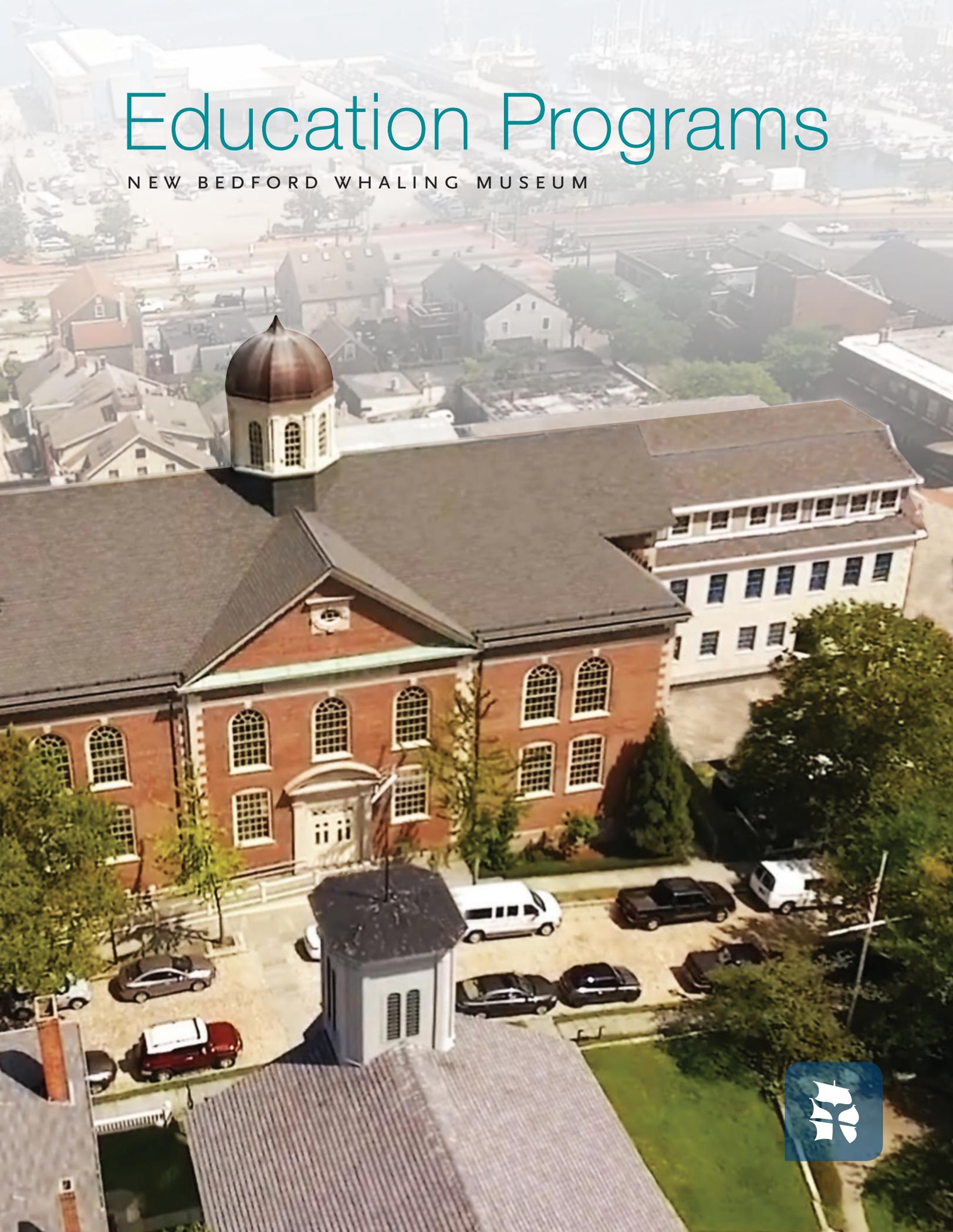


Education Programs

NEW BEDFORD WHALING MUSEUM





Dear Educators,

Our expert staff and docents are dedicated to providing you and your students with the very best and most meaningful educational experience. Programs are specifically tailored to meet your needs and carefully blend science, art, history and cultural content into multi-sensory, hands-on visits that encourage all students to actively participate. All school programs meet the Massachusetts Curriculum Frameworks and the national Common Core Standards. This museum is a must-see for every student.

Please review our offerings. Participate in one program or stay for lunch and take advantage of the full day experience. For older students, conduct research projects and come to the museum over multiple days. Partner with your colleagues for maximum engagement across the whole grade. We promise not to disappoint!

If you are returning, visit our expansive Education Center with new classrooms, library, and workspaces. Twenty four galleries with a huge assortment of displays and exhibits await you. This Museum is not just about whales and whaling—though we have this in abundance! Here you can explore marine science through a variety of senses and experiences, use our ethnographic collections to learn about cultures from around the world, discover the region's integral role in the colonial era, and gain a better understanding of fishing and maritime affairs. More than 16,000 students, teachers and chaperones visit us annually to chart their unique voyages, admire the whale skeletons and climb aboard the world's largest ship model!

To help you in your classroom, we offer pre and post visit materials to support learning and instruction. Our cutting edge technology allows students to interact with our educators long after the visit is over, thus extending the value of the experience. Let us create your learning opportunity by structuring a visit that matches your class's curriculum.

We look forward to working with you, so book your trip today!

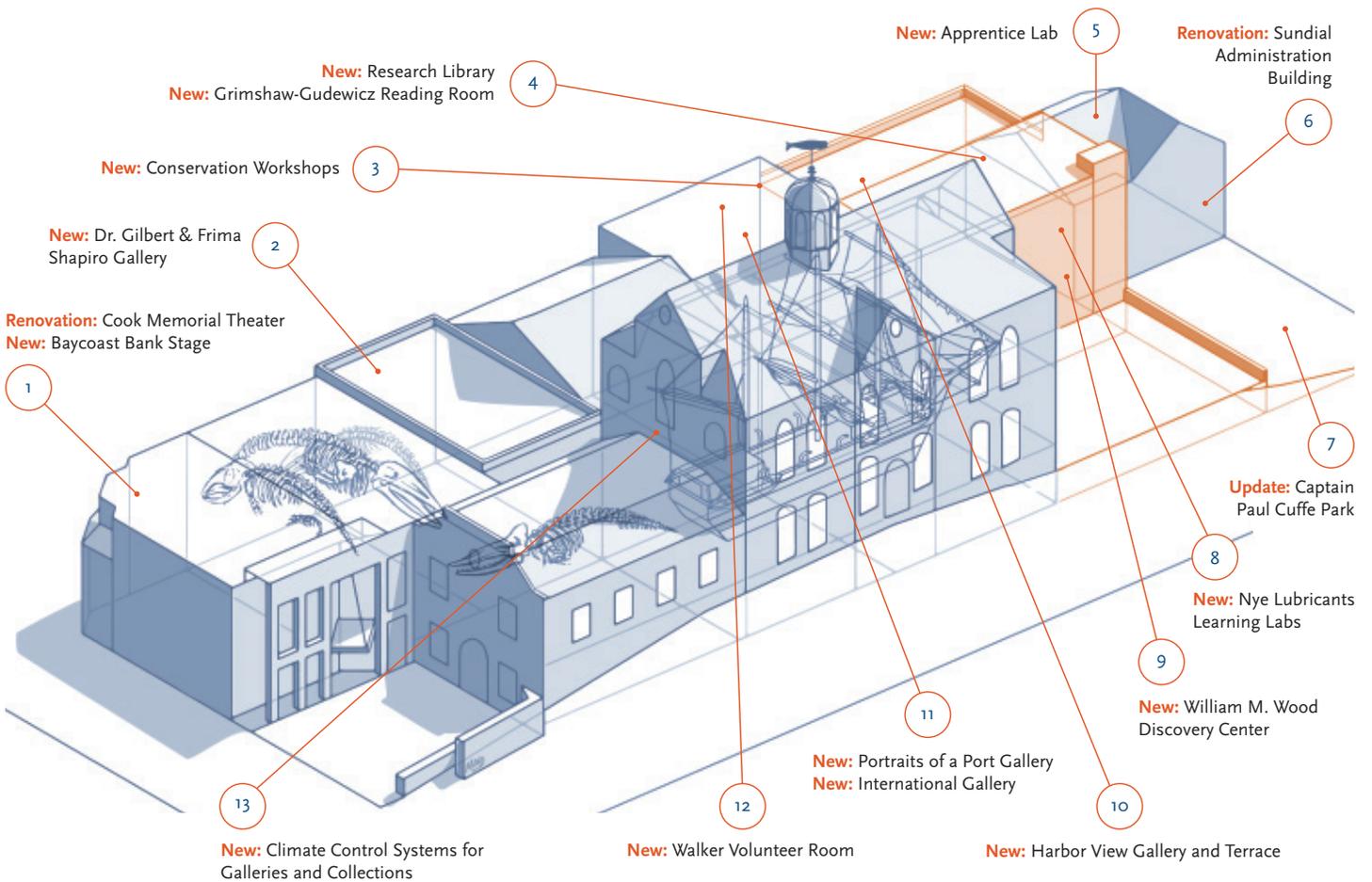
Sincerely yours,

Sarah W. Rose
Curator of Education



A Transformative Experience:

With more than 750,000 artifacts in the collection, and encompassing an entire city block, the Whaling Museum is the world's most comprehensive museum devoted to the global story of whales, whaling, and the history of New Bedford and the region.



Educational Goal

Through both formal and informal education programs, the Museum provides meaningful experiences for students, educators, scholars and enthusiasts designed to foster a community of lifelong learners.



OBJECTIVES:

- Actively engage in efforts to improve educational attainment
- Reflect and promote the cultures and communities of the region through an expanding suite of programs
- Invest in New Bedford's youth through the High School Apprenticeship Program
- Enhance the Research Library's reputation as a state of the art center for scholarship
- Provide digital technologies to amplify learning
- Offer meaningful hands-on, multisensory experiences for students and educators
- Increase the number of schools and K-12 students served
- Deepen college partnerships with both faculty and students
- Expand avocational and adult learning programs to foster inquiry and the exchange of ideas
- Introduce the museum experience to younger audiences
- Communicate and advocate a message of whale conservation and preservation
- Author and publish scholarly works
- Partner with synergistic organizations to leverage impact
- Engage students with comprehensive, content-rich, experiential and visually stimulating exhibits

Program	Page	Massachusetts Learning Standards				
		Language Arts	Social Studies	Science	Math	Visual Arts
History, Language Arts & Culture						
History: Telling a "Real" Story	3	🏛️	🏛️		🏛️	🏛️
What is a Museum All About?	3	🏛️	🏛️	🏛️	🏛️	🏛️
Learning about Whales	4	🏛️	🏛️	🏛️	🏛️	🏛️
A Bird's Eye View of a City	5	🏛️	🏛️		🏛️	🏛️
Out of Many	5	🏛️	🏛️	🏛️		
Simple Machines	5		🏛️	🏛️		🏛️
Cultures with Connections	6	🏛️	🏛️	🏛️		🏛️
Portraits of a Port	6	🏛️	🏛️	🏛️		🏛️
Harbor of Hope	6	🏛️	🏛️	🏛️		🏛️
Moby-Dick	7	🏛️	🏛️			🏛️
Multi-Day Research	7	🏛️	🏛️	🏛️	🏛️	🏛️
Chart Your Own Course	8	🏛️	🏛️	🏛️	🏛️	🏛️
Science						
Sorting It All Out	9	🏛️		🏛️		🏛️
Marine Food Webs	9	🏛️		🏛️		🏛️
Looking Closely at Plankton	10			🏛️		
A Natural Connection to the Azores	10		🏛️	🏛️	🏛️	

All programs comply with the Massachusetts Curriculum Frameworks / Common Core Standards.

History, Language Arts & Culture

Explore the day-to-day life onboard whaling ships, the places traveled, and the cultures observed. These hands-on, thematic tours of the museum offer students the opportunity to engage in the content and explore key topics. Each program is written to specifically address the MA Curriculum Frameworks and Common Core Standards. Our educators are standing by, ready to adapt any program to suit the needs of your students.

NYE LUBRICANTS LEARNING LABS

A home for the Museum's structured school programs, which serve 16,000 participants annually, the Nye Lubricants Learning Labs comprise two classrooms flexibly designed for varied class sizes and teaching approaches. The Labs also provide the necessary space to host new lifelong learning programs for adult audiences.

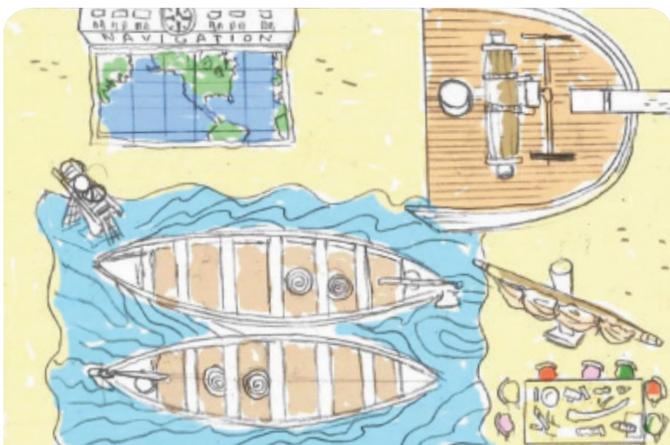


History: Telling a “Real” Story

Students will explore the everyday life on a whaleship in the simplest terms. They will sign up as crew onboard the *Lagoda*, the world's largest ship model, and learn the different roles on the ship, discover what sailors brought on long voyages, and participate in a sea chantey chorus.

Learning standards will be met as students:

- Explore the vocabulary of the time
- Use rhyme and chant to explore the everyday activities of the American sailor
- Recognize geometric shapes



CASA DOS BOTES DISCOVERY CENTER

A family friendly interactive exhibit zone honoring the legacy of the Portuguese community and their whaling heritage, the Discovery Center invites families and students to explore and learn together on a life-size fo'c'sle, whaleboats, barrel pulley system, and navigation station.

What is a Museum All About?

Museums have large collections of many kinds of objects. Learn how museums sort artifacts into different categories. This hands-on, minds-on program helps children realize that museums are fun places to learn new things.

Learning standards will be met as students:

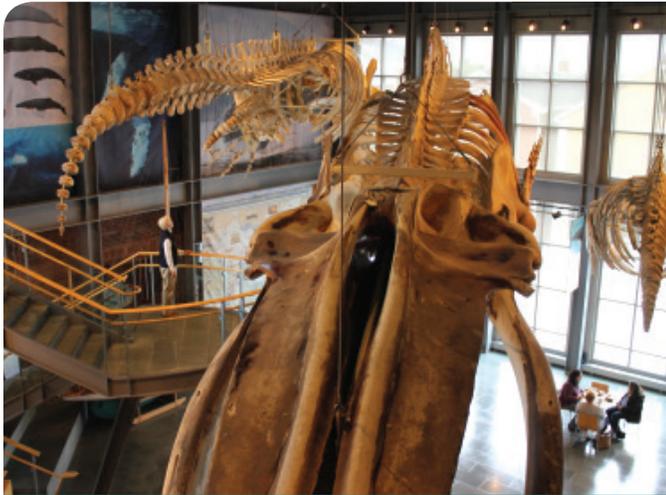
- Experience the multiple uses of numbers including measurement and estimation
- Sort common objects into categories or collections and explain their reasoning
- Observe properties of various objects including size, shape, color, and texture
- Explore the art of scrimshaw and create samples on paper
- Use words and phrases related to time and recognize the existence of changing historical periods



The deepest recorded dive by a whale is 9,816 feet (2,992 meters) by a Cuvier's beaked whale. It stayed below the surface for 138 minutes.

COOK MEMORIAL THEATER

This multi-use theater is designed for presentations, performances, and exhibits. It features a new “visible storage” exhibition, which displays much of the Museum’s striking collection of figureheads, stern-boards, half-hull models, portraits, and shipwrights’ tools. Upgraded audio-visual technology makes this an ideal space for distance learning.



JACOBS FAMILY GALLERY

A unique gallery that houses four complete whale skeletons including a blue whale, humpback whale, and two North Atlantic right whales. This gallery offers visitors the opportunity to explore whale biology and conservation up close!



History, Language Arts, & Culture continued

Learning about Whales *

Whales, dolphins and porpoises are fascinating animals that have captured our attention for centuries. Through the use of real whale artifacts, other hands-on teaching tools, and our magnificent skeletons, students will learn about these amazing animals and discover how closely they are related to humans.

Learning standards will be met as students:

- Determine the ways in which a mammal’s habitat provides for its basic needs
- Discuss the role of the whaling industry in bringing together people from various countries
- Use cardinal directions to map the migration of the North Atlantic right whale as it travels along the eastern coast of the United States
- Make observations about the sensory perceptions of a whale
- Discuss various ways that students can help protect whales today



You can tell the age of a whale by looking at the wax plug in its ear. The plug has a pattern of layers that scientists cut lengthwise to estimate the age of the whale.



BOURNE BUILDING

The purpose-built Bourne Building, honoring whaling magnate Jonathan Bourne, Jr., houses the *Lagoda*, the world's largest ship model. Beyond the ship, the exhibits immerse visitors in all aspects of the Yankee whale hunt.

A Bird's Eye View of a City

The streets and buildings of downtown New Bedford, a National Historical Park, provide a look into our region's past. But, there's more than one way to view these structures. In this program, students and teachers will walk at ground level and then take in a bird's eye panoramic view from the Museum's observation decks of the most photographed neighborhood in New Bedford. (The street level tour is weather dependent.)

Learning standards will be met as students:

- Observe historic buildings and sites
- Gather geographical data to make a map
- Increase understanding of the interdependent relationship between location and place
- Compare and contrast New Bedford's geographic features to those of their own communities



The oldest known whale was a bowhead that lived to be 211 years old.

Out of Many

Living and working on a whaleship was far from easy, especially for those who signed on in foreign ports. However, at the end of the voyage, many whalers chose to settle in New Bedford rather than return to their homeland. These cultures, especially Cape Verdean and Azorean, thrive in the region today. This program will introduce students to these cultures, with a primary focus on Cape Verde.

Learning standards will be met as students:

- Use globes and maps to follow narrative accounts of a whaling voyage
- Locate specific continents, countries and oceans on a map, particularly those from which many whalers emigrated (Azores, Portugal, Cape Verde)
- Observe visual sources such as historic paintings, photographs, and illustrations that accompany historic narratives, and describe details such as clothing, setting, or action
- Recount stories, including fables and myths from diverse cultures; determine the central message, lesson, or moral, and explain how it is conveyed through key details in the text



Simple Machines

Whaleships and fishing vessels played an essential role in New Bedford's economy throughout the nineteenth century. This program provides students with an opportunity to compare and contrast their lives with the living conditions and perils endured by whalers as well as the tools used by those who made their living working on the water.

Learning standards will be met as students:

- Identify simple and compound machines used onboard a whaleship
- Understand the importance of maritime industries
- Interpret maps and charts of New Bedford Harbor and Buzzards Bay

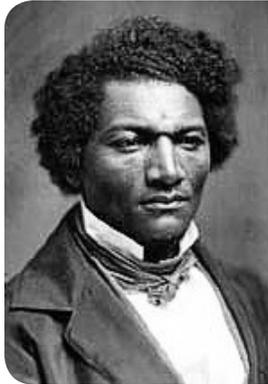
History, Language Arts, & Culture continued

Cultures with Connections *

Nineteenth century whalers established cultural and economic ties with ports in the Azores, Cape Verde, Brazil, Hawaii, and Alaska. Students will have the opportunity to explore the similarities and differences among these cultures through mapping, role playing, and interactive exhibits.

Learning standards will be met as students:

- Identify the differences in the climate, physical characteristics, and major natural resources of New Bedford, Hawaii, and northern Alaska
- Participate in a mapping exercise that follows a whaling voyage from New Bedford, MA to Barrow, AK
- Recognize the diverse nature of the American people
- Investigate objects to understand cultural traditions, ceremonies, and celebrations



PORTRAITS OF A PORT GALLERY

This gallery celebrates individuals who made substantial contributions to the region's social, industrial, and cultural history. The location is appropriately situated to inspire students and teaches towards important regional topics of research and inquiry.

Portraits of a Port *

From Bartholomew Gosnold's encounter with the Wampanoag people in 1602, to the peak years of the whaling industry in the 1850's, this region changed from a subsistence and agricultural community to a prosperous port called New Bedford. Participatory activities include stories of explorers, settlers, entrepreneurs, whalers, former slaves, and numerous others who helped to make New Bedford historically unique.

Learning standards will be met as students:

- Hypothesize the ways location, resources, commercial needs, and sources of labor shaped the local economy
- Identify important leaders and groups responsible for the growth of the Port of New Bedford
- Discuss European explorers, including Bartholomew Gosnold
- Explain the early relationships that developed between European settlers and the indigenous peoples of New England
- Explore the relationships between Puritans, Pilgrims, and Quakers in the 17th and 18th centuries
- Discover how whalers used simple machines to perform tasks onboard

Harbor of Hope: Nineteenth Century New Bedford

New Bedford's successful whaling industry led to a society that was prosperous, diverse, and mobile. Explore the social relationships forged by this industry, with a particular focus on the experiences of African Americans, Cape Verdeans, and Azoreans in New Bedford.

Learning standards will be met as students:

- Understand the relationship between New Bedford's economy and its social structure
- Explore the contributions that different social groups made to the advancement of the whaling industry
- Investigate the evolution of the abolitionist movement in New Bedford
- Discuss the experiences that Quakers, Azoreans, Cape Verdeans, and other immigrant groups had when they relocated to New Bedford



ENERGY AND ENTERPRISE EXHIBIT: INDUSTRY AND THE CITY OF NEW BEDFORD

This exhibit describes the city's evolution from a whaling port to a major manufacturing center, which by the early 20th century was "first among American cities" in the production of goods. Energy & Enterprise illuminates New Bedford's dynamic industrial past and places it within a larger national narrative.



The biggest family of cetaceans (whales, dolphins and porpoises) is the dolphins. There are 38 different species.



THE RESEARCH LIBRARY AND GRIMSHAW-GUDEWICZ READING ROOM

Housing the Museum’s collection of books, logbooks, photographs and manuscripts, the Research Library makes primary source materials accessible to scholars and student researchers.



Moby-Dick

The characters and action in Herman Melville’s great American novel are introduced in a program designed to capture the imagination and interest of all students. Whether they have read an abridged version or immersed themselves in the full-length novel, the Moby-Dick program enhances students’ understanding of the adventures and trials of whaling.

Teachers are invited to work with us in setting the goals for their Moby-Dick program.

Research Project Multi-Day Program

Use the New Bedford Whaling Museum’s exhibits, research library, educators, and curators to create a research project for your students that is like no other. Design your own plan or use one of ours.

Part One:

Guided tour of the galleries to provide students with an overview of our exhibits. Students will begin to refine their interests and structure their research topics.

Part Two:

Visit the Grimshaw-Gudewicz Research Library to pore over original logbooks, crew lists, journals, newspapers, manuscripts, scrimshaw books, and much more. The power of seeing the cursive writing of those who lived 150 years ago piques students’ curiosity.

Part Three:

Once back at school, teachers and students can access the NBWM website, which is loaded with information to support endless exploration. A classroom set of Chromebooks is available for schools to borrow. Also, Museum educators, librarians, and curators are standing by to confer via teleconference and help guide the research.

Part Four:

Return to the Cook Memorial Theater with recently upgraded, state of the art audio-visual technology for student presentations. Invite parents to come along, too!



The largest dolphin is the orca, with a maximum size of 31.5 feet (9.6 meters). The smallest is the rare Hector’s dolphin, reaching a maximum size of 5 feet 3 inches (1.6 meters).

Chart Your Own Course

Want to design a visit that coordinates with your unit of study? Work with Museum educators, curators, and volunteers to create a personalized tour of our exhibits. If time is a concern, schedule an on-line video chat with us to help your class develop background knowledge before your visit or answer lingering questions afterwards.

To begin designing your Museum experience choose from the following topics, then call.

Whales

Presentation with a Science Educator
30 minutes

Whale Touch Table

Whale Experiments

- Blubber
- Buoyancy
- Hearing
- Sight
- Feeding

Whale Anatomy

- Dolphin jaws
- Sperm whale tooth
- Ear bone

Whale Sounds

Whaling

Presentation with Museum Educator
30 minutes

City That Lit The World movie
30 minutes

Nantucket Sleigh Ride – Overview
of whaleboat

Go A'Whaling I Must

Tour of our whale ship *Lagoda*

Simple machines

Voyage 'Round the World

Azorean Whaling – Historic and
Modern Day
(includes video of actual whaling)

Scrimshaw

Art

Presentation with Museum Curator
30 minutes

Visual Thinking Strategies
observation activity
30 minutes

Scrimshaw

Landscapes and Portraits

Ship Models

Architecture within the Museum
and surrounding community

Treasures of the Whaling Museum



Science Programs

Understanding the story of whaling and local history would be incomplete without an understanding of the whales themselves! Our programs investigate the biology of whales, dolphins, and porpoises (collectively known as cetaceans), the roles they play in ocean ecosystems, and simple ways we can help protect them. These programs provide direct engagement by utilizing a combination of Museum artifacts and multimedia resources. Each program is written to specifically address the MA Curriculum Frameworks and Common Core Standards. Each program can be adapted to suit the needs of your students.

Sorting It All Out

Sorting is an everyday occurrence that helps us stay organized and make sense of what's around us. Scientists known as taxonomists have been using the most current scientific system for the past two centuries to sort the world's organisms. Students will take on this role during the program to organize a variety of marine creatures.

Learning standards will be met as students:

- Utilize the Museum's skeletons to determine how scientists choose placement of cetaceans in the taxonomic ranking system
- Classify organisms according to the characteristics shared
- Practice using dichotomous keys to learn the names of the specimens provided
- Create their own simple scheme for sorting animal models



Marine Food Webs *

The transfer of energy among organisms happens daily and sustains life on this planet. The relationships among producers, consumers, and decomposers maintain the flow of chemical energy that makes life possible. This program puts a focus on marine food chains and webs, but also takes a close look at where our species fits in.

Learning standards will be met as students:

- Explain humans' roles within food webs
- Create simple food chains for two of the Museum's whale skeletons - the right and sperm whales
- Link trophic levels by creating a marine food web
- Use computer-based interactive lessons to examine the roles of producers, consumers, and decomposers



There are 22 species of beaked whales. These are open water species that tend to live away from coastlines. None of the females have teeth.



FROM PURSUIT TO PRESERVATION

Home to a 48 foot long male sperm whale skeleton, the gallery introduces visitors to the interaction between whales and humans over the years. From symbols used in early religious ceremonies to the elements of the Yankee whale hunt, this gallery chronicles the sperm whales' interactions with humans.

The heaviest brain belongs to the sperm whale. It averages 17.5 lbs (7.9 kg), but can weigh up to 20 lbs (9.7 kg).



Science continued

Looking Closely at Plankton

Plant and animal plankton are the foundation of most marine food webs. Engaging computer software and hands-on activities enable students to learn about these tiny organisms in a larger-than-life fashion.

Learning standards will be met as students:

- Examine several species of phytoplankton
- Use a simple sorting mechanism to determine which types of zooplankton are shown in photographs given to them
- Discover the roles plankton play in ocean chemistry and biology

A Natural Connection to the Azores

The observations whaling captains made during their voyages provide historical insight into the marine species they encountered. This program combines the use of these historical documents, mapping skills, natural history, and an introduction to ocean currents to create a picture of what whalers saw on their voyages from New Bedford to the Azores.

Learning standards will be met as students:

- Locate and plot latitude and longitude points on a map of the Atlantic Ocean
- Study the ocean currents that guided the ships on their voyages
- Utilize entries from primary source documents
- Follow a ship to the Azores to learn the location of these islands
- Examine information about the species observed

High School Apprenticeship Program

The High School Apprenticeship Program is designed to enhance academic and professional skill development for local high school students, serving as a launching pad to post-secondary education.

Since its inception in January 2010, 100% of the program's graduates have obtained high school diplomas and acceptance into college, a trade school, or the military. Over 65% of the apprentices are still in school or have earned a degree. First year students learn the daily operations of the Museum, study history and biology, and receive experience in public speaking, personal finance, public programming, and research. Second year apprentices are further immersed in the Museum, participating in onsite internships in the education, curatorial, marketing, finance, development, facilities, or research departments to complete projects and learn directly from staff. After successfully completing these aspects of the program, apprentices have the opportunity to participate in offsite internships based on their prospective fields of study to gain real world experience and develop relationships with professionals in the field. Additionally, all apprentices are eligible to receive MCAS and SAT preparation support as well as academic tutoring for school courses.

This program provides a bi-weekly stipend and is eligible to all low-middle income New Bedford students in good academic standing. Hours are 3:15 pm-5:00 pm, Tuesday-Friday during the school year, and 10:00 am-4:00 pm Monday-Thursday during the summer.

How to Apply:

Interested students from New Bedford High School, GNBVT, and GLCPS are encouraged to contact Sarah Rose, Curator of Education, at srose@whalingmuseum.org or (508) 717-6818, or visit www.whalingmuseum.org for more information.



APPRENTICE LAB

The Apprentice Lab is a dedicated classroom and collaboration space for the burgeoning career-readiness-focused Apprenticeship Program, in which 18 high school students currently participate. The Lab provides the students with a space that complements their activities and the program's goals for twenty-first century skill development and college/workplace readiness.



Right whales are 3,810 times larger than their favorite food, copepods. This is the largest predator to prey ratio in the world.

College Interns

The New Bedford Whaling Museum's college internships provide an opportunity for interested students to deepen their understanding of the Museum's functions and contributions. Unpaid college internships are available in the curatorial, development, finance, education, research, and marketing departments. These internships consist of several short-term and/or long-term projects over the course of a semester. Internships are offered throughout the year. At the end of the semester, the student has the opportunity to provide a presentation or paper on his/her experience at the Museum. All interested candidates are encouraged to visit www.whalingmuseum.org or contact Sarah Rose, Curator of Education, at srose@whalingmuseum.org or (508) 717-6818.



Volunteers

Are you looking for ways to make a worthwhile contribution to your community?

Volunteering at the Whaling Museum is a great way to help others. Donate your time, expertise and energy to be part of a vital and active institution dedicated to serving people from around the world.



The rarest dolphin is the Maui dolphin, a subspecies of the Hector's dolphin. There are less than 50 remaining.

General information

Reservations

To make a reservation, call 508-717-6885, ext. 185 or email education@whalingmuseum.org

A confirmation email and packet will be sent to the contact person. Please review the materials carefully.

Admission Fees:

Guided program	\$7
Self-guided program	\$6
Combination: 1 history, language arts and culture, and 1 science program	\$12
Multi-day program	\$15
Chart your own course	\$7-15
One adult (either teacher or chaperone) for every 10 students	FREE
Additional adults (either teacher or chaperone).	\$10
Maintenance fee for hosting lunch in Museum facilities . .	\$30

Financial Aid

New Bedford Public Schools receive free admission, and public schools from Acushnet, Dartmouth, Fairhaven, and Westport are eligible for reduced admission through Jessie Ball duPont Fund or Helen E. Ellis Charitable Trust.

Boston Public Schools are eligible for reduced or free admission and transportation through Schrafft Charitable Trust.

Additional support is provided by grants from the Dartmouth Cultural Council, New Bedford Cultural Council and Westport Cultural Council, local agencies which are supported by the Massachusetts Cultural Council, a state agency.

Arrival Time:

Groups should arrive at the Museum at least 15 minutes before their scheduled program to allow time to disembark the bus, check in, and hang coats. Programs start on time to provide a quality Museum education experience.

Lunch Options:

Students may bring their own lunches. Lunch arrangements must be made prior to your visit to ensure availability of space. (Maintenance fee for hosting lunch in Museum facilities or on Museum Plaza \$30)

Cancellations:

If you need to cancel a program, please contact the Education Department promptly. Failure to cancel a program 14 days in advance may result in a cancellation fee.



GENEROUSLY SPONSORED BY

Institute for Museum and Library Services, Jessie Ball duPont Fund, Helen E. Ellis Charitable Trust, Island Foundation, Carney Family Charitable Foundation, Schrafft Charitable Trust, Dean Welfare Trust, Massachusetts Cultural Council, National Endowment for the Arts, Bristol County Savings Charitable Foundation, Kenneth T. and Mildred S. Gammons Charitable Foundation, New York Community Trust and Howard Bayne Fund, United Way of Greater New Bedford, and R. Patricia, Edward Schoppe, Jr., and WBSM 1420 AM.





NEW BEDFORD
WHALING
MUSEUM

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