

NEW BEDFORD WHALING MUSEUM

# School Programs

EXTEND THE CLASSROOM EXPERIENCE

2015-2016



# Dear Teachers

The New Bedford Whaling Museum has been providing engaging student programming for decades. Our galleries are filled with stories of the people and places of whaling, the art they created and inspired, and the whales they chased. They are also great settings for learning opportunities for all ages. More than 10,000 students and their teachers visit us annually to chart a voyage, explore relationships among various cultures, examine whale baleen and climb aboard the world's largest ship model.

Our staff and docents are dedicated to providing you and your students with a meaningful educational experience. We blend rich history, language arts, culture and science content into hands-on interactions that enable students to participate actively in the programming. Our school programs have been designed to meet the Massachusetts Curriculum Frameworks and the national Common Core Standards. We are happy to tailor our programming to fit your curriculum.

We encourage you to review the programs in this brochure and discuss with your colleagues the programs that best fit your needs. Participate in one program and spend a morning at the Museum. If you'd like a full day experience, your students can take part in both a science and a history program, with a lunch break in-between. Maximize your trip funds by coordinating with a fellow educator to bring more than one class or grade. We look forward to working with you and your students this school year.

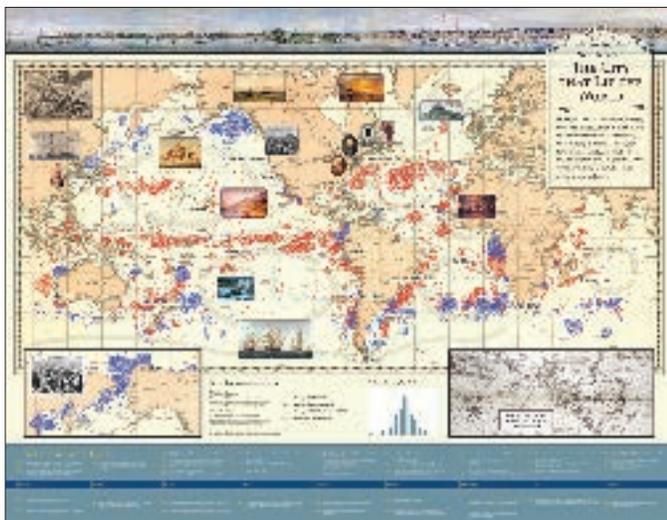
Sincerely,

Sarah Rose, *Curator of Education*

Robert Rocha, *Director of K-12 & Science Programs*

Brian Witkowski, *Director of Apprentices and Interns*

Raven Medeiros-Neves, *K-12 Programs Coordinator*



## FUN FACT:

The gray whale was removed from the endangered species list in 1994. They have very long migrations, more than 10,000 miles each year.

## Science Resource Center

The Museum's Resource Center has a variety of whale and marine science related print and digital materials that are available for borrowing. We encourage you to sign out curriculum packets, books, field guides, magazines and other printed materials, as well as CDs and DVDs. Free consultation appointments are also available.

## Online Resources

The New Bedford Whaling Museum website is home to a vast array of information, resources, photographs and links to our events.

[www.whalingmuseum.org/explore](http://www.whalingmuseum.org/explore) connects you to past, present, online and future exhibitions, to our research library, and allows you to search our photo and object collection.

[www.whalingmuseum.org/learn](http://www.whalingmuseum.org/learn) brings you to our school programs offerings, interactive activities for students, insightful text on several research topics and descriptions of our apprentice, intern, and scholar programs.

[www.whalingmuseum.org/programs](http://www.whalingmuseum.org/programs) explains the variety of programs the Museum hosts for families and adults, such as the Moby-Dick Marathon and Right Whale Day.

[www.whalingmuseum.org/museum-store](http://www.whalingmuseum.org/museum-store) provides web visitors with the opportunity to shop online and show their support for the Museum and its programs and exhibitions.

All of our events can be found on our online calendar [www.whalingmuseum.org/calendar](http://www.whalingmuseum.org/calendar).

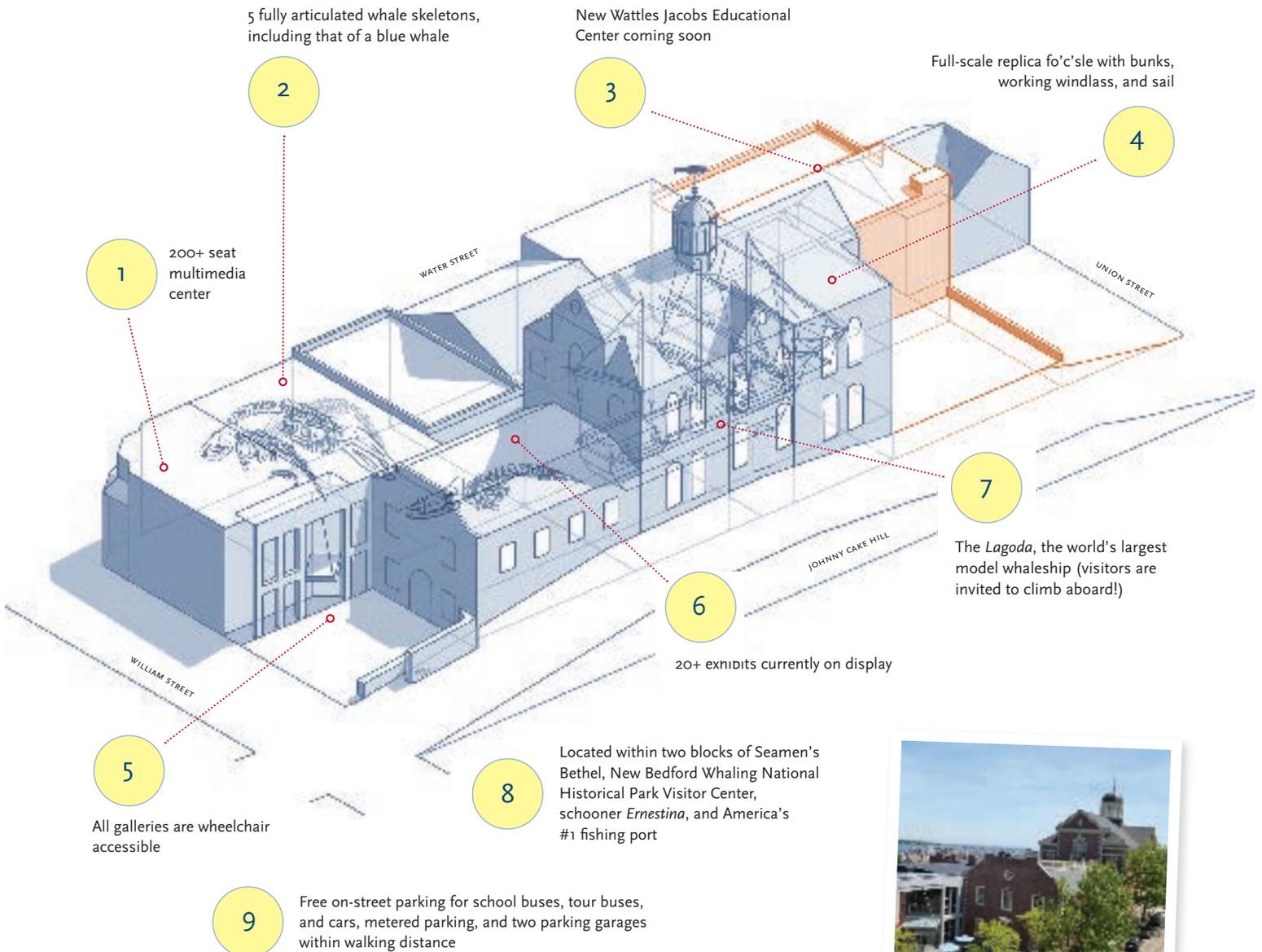
We encourage you to utilize these online resources. They are updated on a regular basis and can be a great source of information for your educational efforts.



Every teacher and student that visits the Museum will receive one free map.

# The Whaling Museum

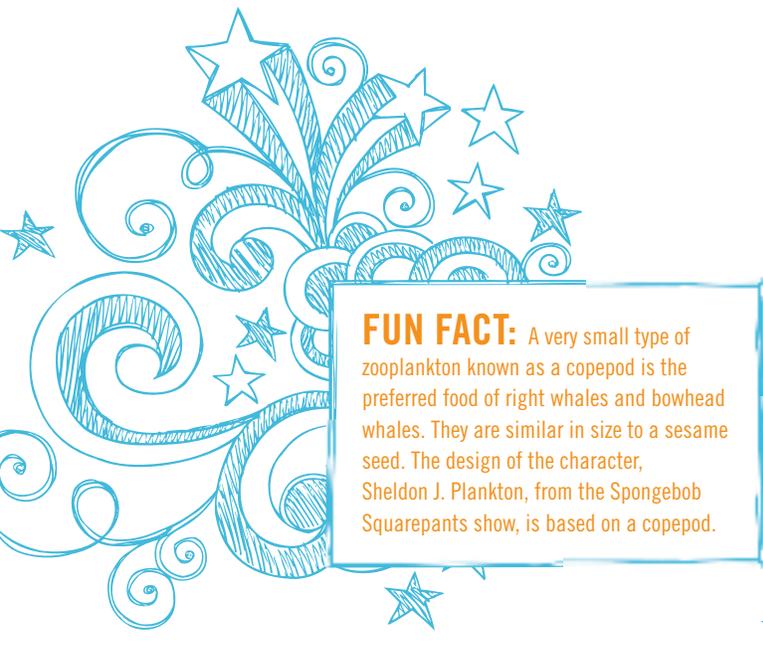
With more than 750,000 items in its collection and encompassing an entire city block, the New Bedford Whaling Museum is the world's most comprehensive museum devoted to the global story of whales, whaling, and the history of New Bedford and the region.



# Programs Overview

Program	Massachusetts Learning Standards					Grades
	Language Arts	Social Studies	Science	Math	Visual Arts	
<b>History, Language Arts &amp; Culture</b>						
History: Telling a “Real” Story	☞	☞		☞	☞	K & 1
What is a Museum All About?	☞	☞	☞	☞	☞	K & 1
Learning about Whales	☞	☞	☞	☞	☞	2 & 3
A Bird’s Eye View of a City	☞	☞		☞	☞	2 & 3
Out of Many	☞	☞	☞			2 & 3
Working on the Water		☞	☞		☞	4 - 6
Cultures with Connections	☞	☞	☞		☞	4 & 6
Portraits of a Port	☞	☞	☞		☞	5, 8 - 12
Harbor of Hope	☞	☞	☞		☞	8 - 12
Moby-Dick	☞	☞			☞	10 - 12
<b>Science</b>						
Sorting It All Out	☞		☞		☞	3 - 8
Marine Food Webs	☞		☞		☞	4 - 9
Looking Closely at Plankton			☞			4 - 9
A Natural Connection to the Azores		☞	☞	☞		5 - 10

All Museum School Programs Comply with the Massachusetts Curriculum Frameworks / Common Core Standards.



**FUN FACT:** A very small type of zooplankton known as a copepod is the preferred food of right whales and bowhead whales. They are similar in size to a sesame seed. The design of the character, Sheldon J. Plankton, from the Spongebob Squarepants show, is based on a copepod.





# History, Language Arts, and Culture

These programs are typically 75-105 minutes in length and include a hands-on, thematic, multi-sensory tour of the museum. Each program is written to specifically address the MA Curriculum Frameworks and Common Core standards for each grade as noted, and each program can be adapted to suit the needs of your students.

## History: Telling a “Real” Story | Grades K & 1

Students will explore the everyday life on a whaleship in the simplest terms. They will sign up as crew onboard the *Lagoda* and learn the different roles onboard, 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

## What is a Museum All About? | Grades K & 1

Hands-on, minds-on activities help children realize that a museum is a fun place 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 have the opportunity to create their own on paper
- Put events in their own and their families’ lives in temporal order
- Give examples of different kinds of work that people do

## Learning about Whales | Grades 2 & 3

Exhibits and participatory investigations assist students in comparing and contrasting whales 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 they can help protect whales today

## A Bird’s Eye View of a City | Grades 2 & 3

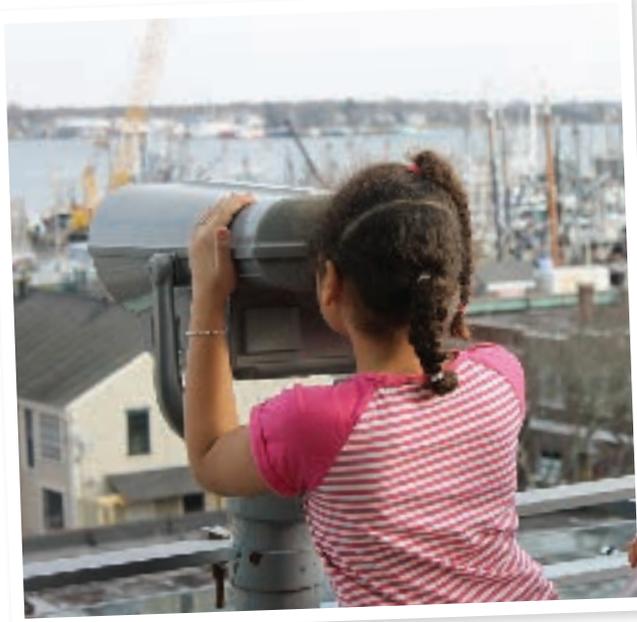
New Bedford’s Whaling Historical National Park and the panoramic view of the city’s harbor, as seen from the Museum’s observation deck, introduce students to geographic ways to describe a place.

### Learning standards will be met, as students:

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



## History, Language Arts, and Culture continued



### Out of Many | Grades 3

Students will discuss Cape Verdean folk tales, discover where the people of New Bedford and its surrounding towns came from, and learn the culture onboard a whaleship.

#### 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 immigrated (Azores, Portugal, Cape Verde)
- Observe visual sources such as historic paintings, photographs, or illustrations that accompany historical narratives, and describe details such as clothing, setting, or action
- Recount stories, including fables, folktales, and myths from diverse cultures; determine the central message, lesson, or moral and explain how it is conveyed through key details in the text



### Working on the Water | Grades 4 – 6

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 the living conditions and perils endured, 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
- Discuss the historical significance of the schooner *Ernestina*, a local national landmark and former fishing vessel

### Cultures with Connections | Grades 4 & 6

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 | Grades 5, 8 – 12

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 agriculture 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 | Grades 8 – 12

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

## Moby-Dick | Grades 10 – 12

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 of the *Moby-Dick* program



### FUN FACT:

Baleen whales (mysticetes) have two blowholes. Toothed whales (odontocetes), including dolphins and porpoises have one blowhole. Yet, all of them have two lungs.



# Science Programs

Science programs typically last 90 minutes. Yet, they are easily extended by exploring additional key concepts or inserting supplemental activities. Programs provide direct engagement by utilizing a combination of Museum artifacts and multi-media resources. Each program is written to specifically address the MA Curriculum Frameworks and Common Core standards for each grade as noted, and each program can be adapted to suit the needs of your students.

## Sorting It All Out | Grades 3 – 8

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 this 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 the animal models given to them

## Marine Food Webs | Grades 4 – 9

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 their 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

## Looking Closely at Plankton | Grades 4 – 9

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 Grades 5 – 10

The observations of whaling captains made during their voyages provide historical insight into the marine species they encountered. This program will combine 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.

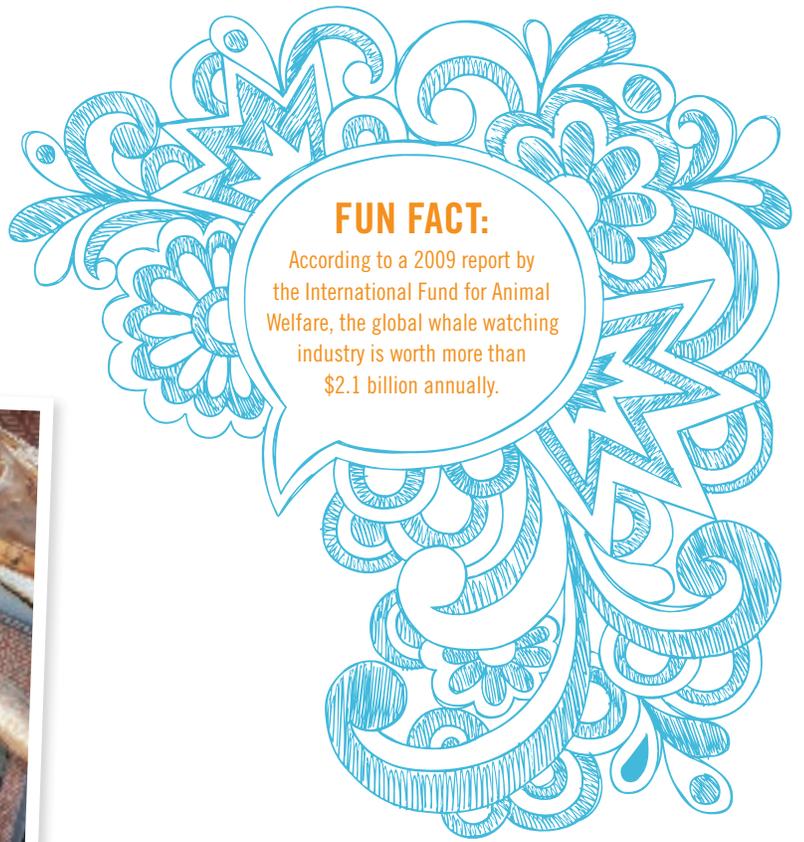
### Learning standards will be met, as students:

- 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 seen



### FUN FACT:

The Society for Marine Mammalogy lists 90 recognized species of whales, dolphins and porpoises, collectively known as cetaceans.



## Professional Development

### Schooling with Whales Workshop

Saturday, March 5 and Sunday, March 6, 2016

8:30 a.m – 4:30 p.m. and 12:00 – 4:30 p.m.

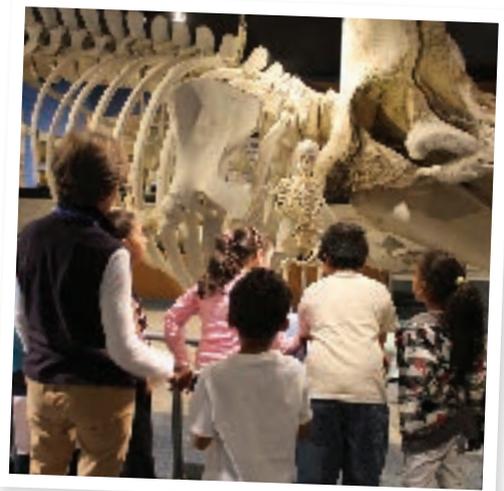
Cost: \$50 + \$50 for 1 graduate credit through Cambridge College.

Taught by Robert Rocha, Science Director; co-sponsored by Museum Institute for Teaching Science (MITS)

Whales can be used within several disciplines in a school building to teach several important concepts. This ten hour workshop will demonstrate ways to use whales and their kin to teach anatomy, food chains, math, geography, reading skills and taxonomy. You'll leave with a packet of activities, links to useful websites and a greater appreciation for cetaceans.

Teachers may choose to earn one graduate credit or 10 PDPs for 10 hours of class time. Credit is optional. PDPs are free and will be granted through MITS.

For course description, objectives and expectations please visit our website [www.whalingmuseum.org/learn/teachers](http://www.whalingmuseum.org/learn/teachers)



# Vacation Week & Special Programs

## Fall

October 24, 2015

### Family-friendly Haunted Whale Ship Reappears! 5:30 – 8:00 pm

The Haunted Whale Ship drifts into its second port-of-call. Children 12 and under (and their parents) are invited to explore the century-old museum in a new light.

In partnership with members of the New Bedford Preservation Society, notable spirits of Old Dartmouth will once again roam the museum galleries and greet visitors with tales of long-ago.

The not-too scary fun includes costume contests by age group, haunted scavenger hunts, crafts, refreshments, spooky stories, and more!

Thanks to our sponsors, admission is FREE for children 12 and under. Adults are \$5 each with proceeds benefiting the Whaling Museum's educational programming. Purchase tickets at [www.whalingmuseum.org](http://www.whalingmuseum.org) or call 508-997-0046 x100. Children must be accompanied by an adult.

## February Vacation Week

February 15, 2016

### Presidents' Day Birthday Celebration 10:00 am – 2:00 pm

Join us as we celebrate Presidents' Day at the Whaling Museum. Presidents George Washington, Abraham Lincoln, and Teddy Roosevelt will visit the Museum to interact with our young visitors. Discover how New Bedford shaped America's history, create Lincoln log cabins, participate in a scavenger hunt, help President Washington write a letter to his wife, and more. Activities conclude with birthday cake in the Jacobs Family Gallery. All activities held in the Jacobs Family Gallery and Wattles Family Gallery are FREE. Regular admission to all other galleries applies. Children must be accompanied by an adult.

February 16-19, 2016

Free crafts and activities including learning to throw a harpoon, creating logbooks to take home, and learning about whales.

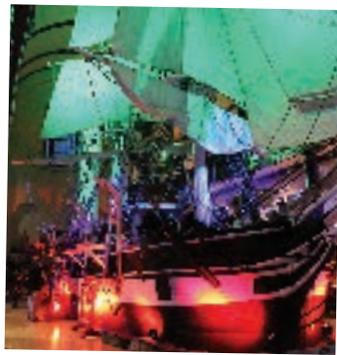
### Highlights tours, 11:00 am and 1:00 pm

Take a 45-minute highlights tour with a docent. Regular admission rates apply.

February 19, 2016

### All aboard the *Lagoda*, 10:30 am

Dress as your favorite character and climb aboard the *Lagoda*! Learn the ropes, interact with different cultures, and scour the seas in search of whales as you experience a global whaling voyage through role-play on the world's largest model whaleship. Regular admission rates apply.



## April Vacation Week

April 18, 2016

### Right Whale Celebration Day 10:00 am – 2:00 pm

Every year, the Museum celebrates the highly endangered Right Whales and raises awareness of the challenges these animals face in increasing their population. This free event includes many fun learning activities for kids and adults, which focuses on fostering greater awareness and appreciation.

The sixth annual Right Whale Day will feature inflatable whales, including one large enough to crawl into, a variety of crafts, and activities such as the blubber glove and whale sleuthing. The Museum's High School Apprentices set up a Right Whale Obstacle Course on our plaza, allowing young and old alike to navigate through the ocean hazards that right whales must overcome as they swim and feed.

Artist/author Peter Stone will read excerpts from his book *Waltzes with Giants: The Twilight Journey of the North Atlantic Right Whale* and will lead a right whale drawing workshop for the public.

The festivities will end with right whale cake at 1:35 pm.

All activities held in the Museum Plaza, Jacobs Family Gallery and Wattles Family Gallery are FREE. Regular admission rates apply to all other galleries. Children must be accompanied by an adult.

April 19– 22, 2016

**Free crafts and activities** including learning to throw a harpoon, creating logbooks to take home, and learning about whales

### Highlights tours, 11:00 am and 1:00 pm

Take a 45-minute highlights tour with a docent. Regular admission rates apply.

April 22, 2016

### All aboard the *Lagoda*, 10:30 am

Dress as your favorite character and climb aboard the *Lagoda*! Learn the ropes, interact with different cultures, and scour the seas in search of whales as you experience a global whaling voyage through role-play on the world's largest model whaleship. Regular admission rates apply.

## Summer Vacation

Programs will include daily crafts and activities (Tuesday – Friday), highlights tours, and Free Fun Friday.

Vacation week programs are subject to change. Visit [www.whalingmuseum.org](http://www.whalingmuseum.org) for current schedule and information.



# High School Apprenticeship Program

Now entering its sixth year, the High School Apprenticeship Program is designed to cultivate professional skills for local high school students and provides a launching pad to post-secondary education. Since its initial implementation in the spring of 2010, 100% of the students that completed the program graduated from high school and were accepted to college, the military, or a trade school. This fall, we will welcome back seven students entering their senior year, and will enroll five high school juniors. Enrollment will increase in the spring as the Museum begins to recruit sophomores entering their junior year. First-year students learn the daily operations of the museum, provide tours and programming, staff events, and improve their public speaking and writing skills. Second-year Apprentices work directly with a member of the Museum staff, receiving one-on-one training and greater experience in a particular department. These students will also have the opportunity to work with partner organizations in the spring, increasing their knowledge in a field of their choice and providing a networking opportunity for future career paths.

Candidates for this program are juniors (or end-of-year sophomores) at New Bedford High School, New Bedford Voc-Tech, or Global Learning Charter who are in good academic standing and qualify for free or reduced lunch. This is a paid position. Hours are 3:00pm-5:00pm, Tuesday-Friday during the school year, and 10:00am-4:00pm Monday-Thursday during the summer.

Interested students are encouraged to contact Brian Witkowski at [bwitkowski@whalingmuseum.org](mailto:bwitkowski@whalingmuseum.org) or visit [www.whalingmuseum.org/learn/opportunities](http://www.whalingmuseum.org/learn/opportunities) for more information.



## Interns

The New Bedford Whaling Museum's college internship program provides an opportunity for interested students to deepen their understanding of the Museum's functions and contributions. Students work alongside staff and fellow interns to advance departmental projects and goals, and are given the opportunity to complete a project, paper or presentation. Paid and unpaid internships are available throughout the year.

Interested students are encouraged to contact Brian Witkowski at [bwitkowski@whalingmuseum.org](mailto:bwitkowski@whalingmuseum.org) or visit [www.whalingmuseum.org/learn/opportunities](http://www.whalingmuseum.org/learn/opportunities) for more information.



**FUN FACT:** The shore-side business that sold supplies and food to whale ships was known as a chandlery.

# General Information

## Reservations

To make a reservation, call 508-997-0046, ext. 185 or email [education@whalingmuseum.org](mailto: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
Combination: 1 history, language arts and culture, and 1 science program .....	\$12
One adult (either teacher or chaperone) for every 10 students .....	FREE
Additional adults (teachers or chaperones) .....	\$10
Maintenance fee for hosting lunch in Museum facilities ..	\$30

## 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 visit to ensure availability of space. (Maintenance fee for hosting lunch in Museum facilities \$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.

# Financial Aid

New Bedford Public Schools receive free admission, and public schools from Acushnet, Dartmouth, Fairhaven, and Westport are eligible for reduced admission through the Island Foundation and Helen E. Ellis Charitable Trust.

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

Additional support provided by Massachusetts Cultural Council, American Association of Museums, Kate and Albert W. Merck, Jessie Ball duPont Education Fund, and Grimshaw-Gudewicz Charitable Foundation.

Please contact the Education Department at 508-717-6885 or [education@whalingmuseum.org](mailto:education@whalingmuseum.org) for more details.

Generously sponsored by



Institute of Museum and Library Services, Grimshaw-Gudewicz Charitable Foundation, the Jessie Ball duPont Educational Fund, Helen E. Ellis Charitable Trust, Island Foundation, Kate and Albert W. Merck, and Schrafft Charitable Trust.



**FUN FACT:** The fin whale, the second largest species of whale, was nicknamed 'the greyhound of the sea' by naturalist Roy Chapman Andrews.

