



**NANTUCKET MARIA
MITCHELL ASSOCIATION**

2021

SUMMER PROGRAM BOOK

**Maria
Mitchell**
Association

Dear Friends,

Welcome to summer on Nantucket! The MMA staff, our amazing interns, and our wonderful volunteers are looking forward to introducing you to the natural and astronomical wonders that Nantucket has to offer. Nantucket is a very special place and I am certain that you will agree that the Maria Mitchell Association offers a tremendous variety of programs, events, and classes for all who are curious – from young to old. The enclosed Summer Program Book will help you plan your summer and fall for you, your family, and visitors. All of the MMA's programming is designed based on hands-on learning that gets you out and exploring the island from its unique ecosystems to the skies above to the home in which Maria Mitchell was born and raised. We offer something for everyone. Please take some time to review all that is offered and take full advantage. Many of our programs can easily be registered for by going online and I would encourage you to do so well in advance because classes, walks, workshops, and other programs fill up fast! Always call if you have any questions. Please note that most of our programs offer substantial discounts if you become a member of the Maria Mitchell Association. We are here to ensure that you have a summer on Nantucket that is full of fun and learning.

Science is our passion.
Education and research are our specialties.
Nantucket is our classroom.

Enjoy,



Jason Bridges
Interim Executive Director



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About Maria Mitchell

- Born on Nantucket August 1, 1818
- Discovered a telescopic comet on October 1, 1847 from the rooftop of the Pacific Bank, Nantucket
- Received a gold medal for her comet discovery from the King of Denmark
- First woman elected into the American Academy of Arts and Sciences (1848)
- Founding Member of the Association for the Advancement of Women
- Elected to the American Association for the Advancement of Science
- First Professor of Astronomy at Vassar College
- Died on June 28, 1889. She is buried in the Mitchell family plot at Prospect Hill Cemetery



Become a Member and Show Your Love For Science!

When you become a member of the Maria Mitchell Association, you're becoming part of a larger community that believes science education and research is important. Your membership entitles you to a number of wonderful benefits with a level to fit every budget.

General Membership Benefits Include:

- Unlimited free admission to the Aquarium and Historic Mitchell House;
- Free Admission to Open Nights;
- Discounts on Discovery Camps, field trips, workshops, programs, and gift shop merchandise;
- VIP booking status for Discovery Camps and 2021 programming;
- Invitations to special Members-only events;
- And so much more!

Basic Memberships

Individual	\$65
Senior Couple	\$75
Year-Round Family	\$85
Family	\$125

Supporting Memberships

Nova	\$250
Supernova	\$500
Galaxy	\$1,000
Centennial	\$2,500
Miss Mitchell's Comet	\$5,000

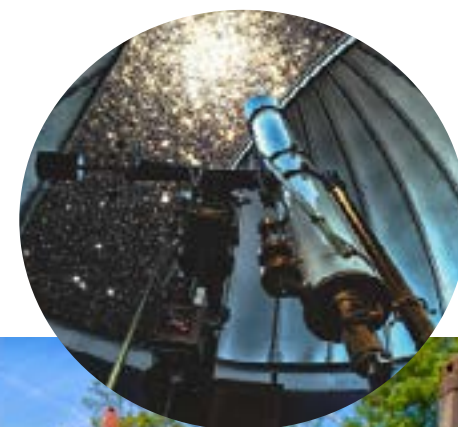
**Become a Member online at
mariamitchell.org
 or call 508-228-9198**

Board Of Directors 2020-2021

Helene Weld, President
 Judy MacLeod, First Vice President
 Frances Symes, Second Vice President
 Curt Burwell, Treasurer
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 Margaret Falk
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 Toni McKerrow
 Michael Nelson
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 Brian Sullivan
 Jane Tausig

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 Sally Charpie
 John Daniels
 Daniel Drake
 Joan Gulley
 Judith Lee
 Malcolm MacNab, M.D., Ph.D.
 Eileen McGrath
 Nathaniel Philbrick
 Anne Parks Strain
 Edward Symes, III†





Aquarium and Gift Shop

28 Washington Street
508-228-5387

*Open Monday - Friday
10:00 AM - 4:00 PM*

Open Saturday 10:00 AM - 1:00 PM



Washington Street Facility

33 Washington Street
508-228-9198

Special Events and Presentations



Natural Science Museum and Gift Shop at Hinchman House

7 Milk Street
508-228-0898

Special Programs and Presentations



Historic Mitchell House

1 Vestal Street
508-228-2896

*Guided Tours Monday - Friday
10:00 AM - 4:00 PM*

Saturday 10:00 AM - 1:00 PM



Vestal Street Observatory

3 Vestal Street
508-228-9273

Closed for renovations



Research Center

2 Vestal Street
508-228-9219

*Indoor classroom, science lab, and
biological collections.*

Open Hours Friday 1:00 PM - 5:00 PM



Administrative Offices

4 Vestal Street
508-228-9198

*Open Monday - Friday
8:00 AM - 4:00 PM*



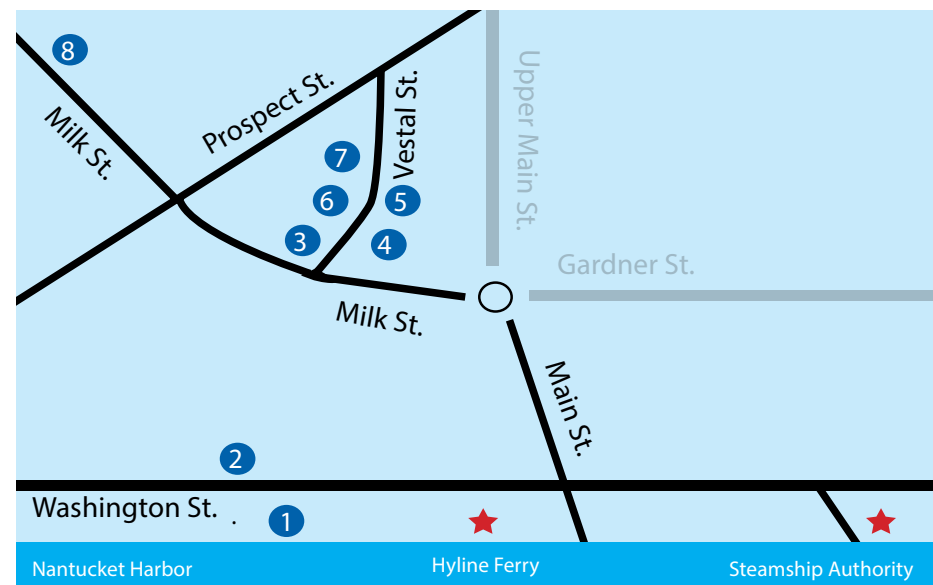
Loines Observatory

59 Milk Street
508-228-9273

Monday and Wednesday

9:00 - 10:30 PM, weather permitting

*If weather is a concern, please check our website or
call 774-325-1081.*



SUNDAY	MONDAY	TUESDAY	WEDNESDAY
JUNE		1	2
6	7 Opening Day!	8	9 Marine Ecology Field Trip Beach Ecology Field Trip
13	14 Feeding Frenzy Open Night at Loines Observatory	15 Feeding Frenzy	16 Feeding Frenzy Marine Ecology Field Trip Beach Biology Field Trip Night Marine Ecology Field Trip Open Night at Loines Observatory
20	21 Feeding Frenzy Open Night at Loines Observatory	22 Feeding Frenzy	23 Feeding Frenzy Marine Ecology Field Trip Beach Biology Field Trip Open Night at Loines Observatory
27	28 Feeding Frenzy Family Sailor's Valentines Nature Story Hour Open Night at Loines Observatory	29 Feeding Frenzy Meet the Animals	30 Feeding Frenzy Marine Ecology Field Trip Tree Walk at Mill Hill Beach Biology Field Trip Night Marine Ecology Field Trip Open Night at Loines Observatory

THURSDAY	FRIDAY	SATURDAY
3	4	5
10 Marine Ecology Field Trip	11 Marine Ecology Field Trip	12 Feeding Frenzy
17 Feeding Frenzy Marine Ecology Field Trip	18 Feeding Frenzy Marine Ecology Field Trip	19 Feeding Frenzy
24 Feeding Frenzy Marine Ecology Field Trip	25 Feeding Frenzy Nature Story Hour Marine Ecology Field Trip	26 Feeding Frenzy Meet the Animals

SUNDAY	MONDAY	TUESDAY	WEDNESDAY
JULY			
4	5 Feeding Frenzy Nature Story Hour Open Night at Loines Observatory	6 Feeding Frenzy Meet the Animals	7 Feeding Frenzy Marine Ecology Field Trip Tree Walk at Mill Hill Beach Biology Field Trip Open Night at Loines Observatory
11	12 Nantucket Green Crab Week Feeding Frenzy Storytime with the Mitchells Nature Story Hour Open Night at Loines Observatory	13 Feeding Frenzy Meet the Animals	14 Feeding Frenzy Marine Ecology Field Trip Tree Walk at Mill Hill Beach Biology Field Trip Night Marine Ecology Field Trip Open Night at Loines Observatory
18	19 Feeding Frenzy Family Sailors' Valentines Nature Story Hour Open Night at Loines Observatory	20 Feeding Frenzy Meet the Animals	21 Feeding Frenzy Marine Ecology Field Trip Tree Walk at Mill Hill Beach Biology Field Trip Open Night at Loines Observatory
25	26 Feeding Frenzy Storytime with the Mitchells Nature Story Hour Open Night at Loines Observatory	27 Feeding Frenzy Meet the Animals	28 Feeding Frenzy Marine Ecology Field Trip Tree Walk at Mill Hill Beach Biology Field Trip Night Marine Ecology Field Trip Open Night at Loines Observatory

THURSDAY	FRIDAY	SATURDAY
1 Morning Meditation in Nature Feeding Frenzy Marine Ecology Field Trip Stars & Senses Night Hike	2 Feeding Frenzy Nature Story Hour Marine Ecology Field Trip	3 Feeding Frenzy Meet the Animals
8 Morning Meditation in Nature Feeding Frenzy Marine Ecology Field Trip Stars & Senses Night Hike	9 Feeding Frenzy Nature Story Hour Marine Ecology Field Trip	10 Feeding Frenzy Meet the Animals
15	16	17 Feeding Frenzy Meet the Animals
22 Morning Meditation in Nature Feeding Frenzy Marine Ecology Field Trip Stars & Senses Night Hike	23 Feeding Frenzy Nature Story Hour Marine Ecology Field Trip	24 Feeding Frenzy Meet the Animals
29 Morning Meditation in Nature Feeding Frenzy Marine Ecology Field Trip Stars & Senses Night Hike	30 Feeding Frenzy Nature Story Hour Marine Ecology Field Trip	31 Feeding Frenzy Meet the Animals

SUNDAY	MONDAY	TUESDAY	WEDNESDAY
AUGUST		3 Feeding Frenzy Meet the Animals	4 Feeding Frenzy Marine Ecology Field Trip Tree Walk at Mill Hill Beach Biology Field Trip Open Night at Loines Observatory
1 Maria Mitchell's Birthday	2 Feeding Frenzy Nature Story Hour Open Night at Loines Observatory		
8	9 Feeding Frenzy Nature Story Hour Open Night at Loines Observatory	10 Feeding Frenzy Meet the Animals	11 Feeding Frenzy Marine Ecology Field Trip Tree Walk at Mill Hill Beach Biology Field Trip Night Marine Ecology Field Trip Open Night at Loines Observatory
15	16 Feeding Frenzy Storytime with the Mitchells Nature Story Hour Open Night at Loines Observatory	17 Feeding Frenzy Meet the Animals	18 Feeding Frenzy Marine Ecology Field Trip Tree Walk at Mill Hill Beach Biology Field Trip Open Night at Loines Observatory
22	23 Feeding Frenzy Storytime with the Mitchells Nature Story Hour Open Night at Loines Observatory	24 Feeding Frenzy Meet the Animals	25 Feeding Frenzy Tree Walk at Mill Hill Open Night at Loines Observatory
29	30 Feeding Frenzy Open Night at Loines Observatory	31 Feeding Frenzy	

THURSDAY	FRIDAY	SATURDAY
5 Morning Meditation in Nature Feeding Frenzy Marine Ecology Field Trip The Stargazer Gala Stars & Senses Night Hike	6 Feeding Frenzy Nature Story Hour Marine Ecology Field Trip	7 Feeding Frenzy Meet the Animals
12 Morning Meditation in Nature Feeding Frenzy Marine Ecology Field Trip Stars & Senses Night Hike	13 Feeding Frenzy Nature Story Hour Marine Ecology Field Trip	14 Feeding Frenzy Meet the Animals
19 Morning Meditation in Nature Feeding Frenzy Marine Ecology Field Trip Stars & Senses Night Hike	20 Feeding Frenzy Nature Story Hour Marine Ecology Field Trip	21 Feeding Frenzy Meet the Animals
26 Morning Meditation in Nature Feeding Frenzy Stars & Senses Night Hike	27 Feeding Frenzy	28 Feeding Frenzy

SUNDAY	MONDAY	TUESDAY	WEDNESDAY
SEPTEMBER			1 Feeding Frenzy
5	6	7	8
12	13	14	15
19	20	21	22
26	27	28	29

THURSDAY	FRIDAY	SATURDAY
2 Feeding Frenzy	3 Feeding Frenzy	4
9	10 Maria Mitchell and the Daring Daughters of Nantucket Island	11 Four Centuries Domestic Tour
16	17	18
23 Maria Mitchell Women of Science Symposium	24	25
30		

Open Nights at Loines Observatory

Join our professional astronomers for an impressive tour of the starry sky and for telescopic viewing of the Moon, planets, globular clusters, and more. Due to COVID-19, we will have limited space and different viewing policies. **Masks required.**

Mondays and Wednesdays:

June 14 - August 30

9:00 - 10:30 PM

Location: Loines Observatory,
59 Milk Street Extension

Members: Free; Non-Members: \$10

No registration required.

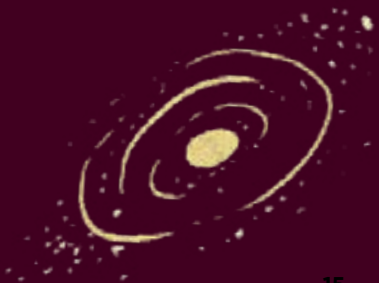
Weather permitting

Call 774-325-1081 or check our website if weather is questionable.

Private Events at Loines Observatory

Enjoy an evening under the stars at the famed Loines Observatory. A professional astronomer will guide you and your guests through a tour of the constellations and let you peer at distant celestial bodies through our telescopes. It's a magical evening that makes for great memories.

For information and pricing, please call the Maria Mitchell Association.



Marine Ecology Field Trips

Wednesday - Friday: June 9 - August 20

10:00 AM - 12:00 PM

Members \$15; Non-Members \$30

Pre-registration online is required. Masks required.

What sea creatures live in Nantucket Harbor? Find out as you help collect, identify and release fish, crabs, shrimp, and other marine life! The Harbor is filled with interesting animals that will amaze you in their shapes, colors, and habits. This program is part of a long-term research project and is interesting for adults and children alike. Own transport necessary. At least one adult must sign up with children. This program is designed to be interesting for all ages.

Beach Biology Field Trip

Wednesdays: June 9 - August 18

2:00 - 4:00 PM

Members \$15; Non-Members \$30

**Pre-registration online is required.
Masks required.**

Did you know that some Nantucketers love to eat mole crabs? Join Aquarium staff to learn about the fascinating biology, ecology, and geology that make Nantucket's beaches so unique. We will discover shells and bones of over 15 species of marine animals and are likely to observe live mole crabs, sand fleas, shore birds, beach insects, seals, and more! This program is designed to be interesting for all ages.

Interested in a private Marine Ecology Field Trip or Beach Biology Field Trip program?

Call us at 508-228-5387 or email jdubinsky@mariamitchell.org to find out about pricing. Timing can be flexible.



Night Marine Ecology Field Trip

Wednesdays: June 16, 30; July 14, 28; August 11

9:00 - 10:00 PM

Members \$15; Non-Members \$30

Pre-registration online is required. Masks required.

Nantucket Harbor teems with marine life at night that is not visible in the day. Join our Aquarium staff to learn about the fish, squid, crabs, and more that come out to feed at night in the shallow water. Meet at the MMA Aquarium, 28 Washington Street. At least one adult must sign up with children. This program is designed to be interesting for all ages.

Interested in a private Night Marine Ecology Field Trip?

Call us at 508-228-5387 or email jdubinsky@mariamitchell.org to find out about pricing. Timing can be flexible.

Feeding Frenzy

Monday – Saturday: June 8 - September 4

9:00 - 9:45 AM

Members \$125 (group price); Non-Members \$175 (group price)

Pre-registration online is required. Masks required.

Join Aquarium staff on a private tour as they feed the ever-hungry creatures at the Aquarium before it opens to the public! The Feeding Frenzy is extremely popular, so advance registration is required. This flat-rate program can accommodate 1 household of up to 5 guests. At least one adult must sign up with children. This program is designed to be interesting for all ages.

Interested in a private Feeding Program on Sunday? Call us at 508-228-5387 or email jdubinsky@mariamitchell.org to find out about pricing. Timing can be flexible.



Nature Story Hour

Mondays: June 28 - August 23
10:00 - 11:00 AM
Fridays: June 25 - August 20
9:00 - 10:00 AM
Members: \$10; Non-Members: \$15
Pre-registration required. Masks required.

Begin your day with this program specially-designed for the young explorer in your family! During each session, an MMA educator will read a nature or science related book, introduce you to one of the MMA's animal friends, and we will finish up by making a craft or playing games related to the story. For the safety of our animals, we will not allow anyone to touch them. This is a reoccurring program, but the specific focus and materials provided will change each week.



Biological Collections Open Hours

Fridays: 1:00 - 5:00 PM
Free for Members and Non-Members
Drop in; No registration required. Masks required.

The MMA Biological Collections and the Edith F. Andrews Ornithology Collection are an important resource for scientists and visitors alike. Come to this free drop-in program at the Research Center at 2 Vestal Street. During your time at the Open Hours, you will learn about the collections, why collections are so important to science, and examine different specimens during each session. From specimens of birds and mammals to insects and plants, you never know what will be on display! Learn from and ask questions of knowledgeable MMA staff. Free but donations appreciated.



Meet the Animals

Tuesdays: June 29 - August 24; 2:00 - 2:30 PM
Saturdays: June 26 - August 21; 9:30 - 10:00 AM
Members: \$10; Non-Members: \$15
Pre-registration required. Masks required.

The Natural Science Museum is home to frogs, turtles, snakes, and insects that you can safely touch in this unique program. If you love animals, this is a great way to learn about them up close. This program is designed to be interesting for all ages. At least one adult must sign up with children.

Tree Walk at Mill Hill

Wednesdays: June 30 - August 25

10:00 - 11:00 AM

Members: \$20; Non-Members: \$35

Pre-registration required. Masks required.

Nantucket is an excellent place for learning more about trees, with its diversity of native, introduced, and domestic species. Getting started can be difficult if you don't know what to look for. Join Dan Souza, the MMA's Museum Manager, on a low-impact walk around the MMA campus and Mill Hill. We will learn about the importance of trees in local ecosystems, adaptations of native species, and we will identify various species along the way!



Stars & Senses Night Hike

Thursdays: July 1 - August 26

9:00 - 10:00 PM

Members: \$30; Non-Members: \$45

Pre-registration required. Masks required.

Join Dan Souza, the MMA's Museum Manager, for an evening hike under the stars. During the walk you will participate in a color vision activity, learn how our eyes adjust to the dark, listen for nocturnal animals, take a solo journey if you dare, and enjoy a minty snack while learning about bioluminescence. At the end of the walk, sit back and relax while you hear stories of summer constellations. Appropriate for ages 8 and up. Located at the State Forest, meet at the State Forest parking lot on Lover's Lane.



Morning Meditation in Nature

Thursdays: July 1 - August 26

8:00 - 9:00 AM

Members: \$30; Non-Members: \$45

Pre-registration required. Masks required.

Start your day off peacefully with Dan Souza, MMA's Museum Manager, as we soak in the early morning sun at the State Forest. In addition to a guided mindfulness activity, participants will learn about the science behind mindfulness, and how regular encounters with nature can physically change our brain. Through short games and activities inspired by scientific trials on mindfulness, we will examine how intimate encounters with nature affect our brain and behavior. Appropriate for ages 12 and up.

Custom Private Activities

If our camp and family programs are full or don't fit into your family's schedule, we can provide private, customized programs for children or your entire family. Possible activities include beach exploration, snorkeling, guided nature hikes, orienteering/geocaching, kayaking, nature inspired arts & crafts, bird watching, fort building, and more. Have another idea? Just let us know.

Flexible scheduling depending on your schedule.*

Members: \$30/hour/person

Non-Members: \$40/hour/person

Minimum fee charged: Members: \$100/hour, Non-Members \$130/hour

*Subject to availability



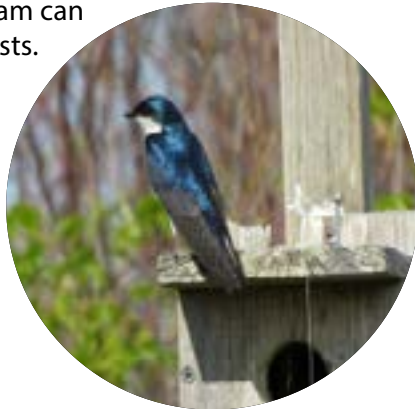
Private Bird Walks with MMA Field Ornithologist Ginger Andrews

Wednesdays – Saturdays, at your convenience: June 2nd – September 29th
Members: \$100 Non-Members: \$150 (Prices are per group)

Pre-registration required. Masks required.

Birds are an important part of Nantucket's ecosystem and the island is known as an excellent birding spot. Join MMA Field Ornithologist Ginger Andrews and head out to some of the best birding areas in and around town! Location is flexible and we can accommodate your birding interests! Bird walks are 2 hours in length.

Pre-registration is required, please call 508-228-9198 to book a private walk. This flat-rate program can accommodate 1 household of up to 5 guests. Guests are responsible for arranging transportation to the program location.



Family Programs

Family Sailors' Valentines

Mondays: June 28 and July 19: 10:00 - 11:30 AM

For a parent/grandparent/guardian and a child aged 5 or older.

Members: \$40 adult/child pair;

Non-Members: \$55 adult/child pair;

\$10 for each additional child

Pre-registration required, call 508-228-2896



A great time for you and your child to learn and create together! Join the curator of the Mitchell House and create your own version of a sailors' valentine by decorating a small Shaker-style box or picture frame – something to be enjoyed for years to come. We provide all of the supplies – you bring your imagination and creativity! Adult must remain with child for entire program. The program will meet in the courtyard of the MMA campus on Vestal Street.

Storytime with the Mitchells

Mondays: July 12 and 26; August 16 and 23

9:30 - 10:30 AM

For a parent/grandparent/guardian and a child aged 3 - 5.

Members: \$5 adult/child pair; Non-Members: \$10 adult/child pair

Pre-registration necessary, call 508-228-2896



Join the curator of the Mitchell House as we read a story about Maria or the time in which she lived, take a brief look back in time at the Mitchell House, and then create a craft related to Maria Mitchell. A great introduction to museums and history for your young one. Must be accompanied for entire program by an adult caregiver.

Walking Tours

Maria Mitchell and the Daring Daughters of Nantucket Island

Friday, September 10: 2:00 - 4:00 PM

Members: \$10; Non-Members: \$15

Pre-registration required.

Masks required.

Join the curator of the Mitchell House for a walking tour concerning the lives of Maria Mitchell and Nantucket's famous and infamous women as well as the lesser known women of our island. Learn why whaling, Quakerism, and the isolation of an island afforded these women opportunities that women elsewhere in America at the time were not afforded.



Pre-registration required, please call 508-228-2896 to register and for more information.

Four Centuries Domestic Tour

Saturday, September 11

10:00 AM - 12:00 PM

\$10 per person

No reservations necessary.

Masks required.

A unique and extremely popular collaborative walking tour with the MMA's Deputy Director & Curator of the Mitchell House, the Nantucket Preservation Trust, and the Nantucket Historical Association that looks at the changes in domestic life over four centuries and how it shaped homes, buildings, neighborhoods, and land use. Participants should meet at the Oldest House on Sunset Hill (tour will end on Main Street). Tour includes brief visits inside each building visited when possible.



Everyday Science

Looking for a fun and interactive science activity this summer? Be sure to check out our Everyday Science kits being offered for free throughout July and August! Each week, kits will be focused on a different science topic with age-group specific curriculum.



Kits are designed for children ages 4 to 15.

Pick-up will be determined depending on each kit and announced on social media and our website.



Nantucket Green Crab Week

Monday, July 12 - Friday July 16

The European green crab (*Carcinus maenas*) is an invasive species that threatens Nantucket's native species and eelgrass habitats. Their diverse diet, tolerance of a large range of ocean temperatures, and long larval period makes them excellent at conquering new environments. Green crabs are generally regarded as one of the top five most invasive species in the marine environment.

Throughout the week, we will share information to learn about this threat through live lectures, in-person demonstrations, and the opportunity to participate in citizen science research with the first-ever Green Crab Derby! Visit our website for the full schedule of events.



Island Explorers Camp – Nantucket Residents Only

Join us for a special week of camp for year-round residents of Nantucket. You will explore coastal and upland habitats in search of critters, play games, listen to stories, make crafts, and so much more! Max Capacity - 15 for each group.

Wee Explorers: **June 14 - 18** 8:50 AM - 1:00 PM
 June 21 - 25 8:50 AM - 1:00 PM
 Members: \$165; Non-Members: \$240

Habitat Hoppers: **June 14 - 18** 8:50 AM - 1:00 PM
 Members: \$165; Non-Members: \$240
 June 21 - 25 8:50 AM - 3:00 PM
 Members: \$195; Non-Members: \$270

Pre-Wee Ages 3.5 - 5 with Adult Guardian

Partial Week, Half Day Programs: 9:30 AM - 12:00 PM

Members: \$255 per adult/child pair;
 Non-Members: \$330 per adult/child pair

Awesome Observers: Introduce your child to MMA's Discovery Camp through our preschool and guardian camp. Parents, nannies, relatives, or babysitters at least 18 years old are invited to participate as guardians. Each day, you will play games, make observations, sing songs, and design crafts to explore Nantucket's animals, habitats, or the stars above. This class will be based at 33 Washington Street with field trips to nearby local beaches, parks, and the MMA Aquarium. Each week will have new topics and activities so feel free to sign up for multiple sessions!

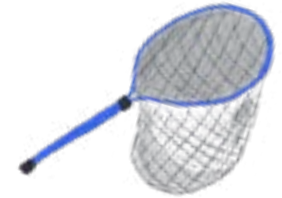
June 14 - 18, June 28 - July 2, July 12 - 16, July 26 - 30, August 9 - 13



Wee Explorers Ages 5 - 6

Half Day Programs: 8:50 AM – 1:00 PM

Members: \$395; Non-Members: \$470



Animal Signs & Senses: Get your nature detective skills going as we explore beaches, forests, fields, and more in search of animals and any evidence they've left behind. Use your own senses to discover clues in the landscape and how animals use their senses to survive. This session will include games, hands-on lessons with scientific equipment, free exploration time, and more. Each session will have a unique theme that will be determined by the summer instructors.

June 21 - 25, July 5 - 9, August 2 - 6

Aware in the Wild: Be aware in the wild, it's best for survival! Travel around Nantucket's inland areas in search of birds, bugs, trees, and leaves. Learn about the weird, wacky, and wonderful things that live all around us and what they need to survive. We will visit different habitats each day to learn about the plants and animals that live there, and make tasty treats from wild edibles, learn about how humans grow plants in the MMA's Giving Garden, play nature inspired games, and more. Each session will have a unique theme that will be determined by the summer instructors. Note: Not recommended for children prone to food allergies.

June 28 - July 2, July 26 - 30

Investigation Station: Energy and matter is all the chatter during this week of free exploration and hands-on physical science fun. Guided by questions of the day, we will discover the answers exploring many of the Earth's surfaces including mudflats, sandy beaches, and forest floors. Also, prepare to get dirty during scientific experiments like slime, solar powered putty, and more. Each session will have a unique theme that will be determined by the summer instructors.

July 12 - 16, August 9 - 13

Wacky Waves: You'll have a swell time uncovering the mysteries of marine life and discovering how different species survive in an ever-changing world of waves. Explore Nantucket's north shore beaches, conduct experiments, observe animal behaviors in their natural environment, and learn about the world of waves around us through music, games, and more. Each session will have a unique theme that will be determined by the summer instructors.

July 19 - 23, August 16 - 20

Habitat Hoppers Ages 7 - 9**Full Day Programs: 8:50 AM - 3:00 PM**

Members: \$490; Non-Members: \$565



Amazing Adaptations: Why do turtles have shells? Why do bats come out at night? Investigate your favorite animal species and how they evolved during this week of adaptation adventures. We will collect plants and animals using nets, insect aspirators, and more. Examine the obvious and not-so-obvious adaptations that help these living organisms survive using microscopes, magnifying lenses, and other scientific investigation tools. Put your knowledge and own adaptations to the test playing games, engineering designs, and solving mysteries. Each session will have a unique theme that will be determined by the summer instructors.

June 28 - July 2, August 16 - 20

Exploring Art in Ecosystems: Come and join us as we investigate Nantucket's ecosystems and the interdependence of plants and animals through nature inspired art projects. This class fuses our love of science and outdoor adventure with artistic expression. We will incorporate our daily explorations, investigations, and observations with art projects such as painting, sculpture, collage, paper maché, and more. Each session will have a unique theme that will be determined by the summer instructors.

June 21 - 25, July 19 - 23

Lore of the Land: What are your favorite stories? What did you learn from them? This week, take a journey into your imagination with myths, folktales, and fairy tales inspired by the natural world. As we explore the diverse habitats of Nantucket in search of plants and animals, we will share the fascinating tales about these species through games, crafts, spoken word, and more. We'll even get a chance to create our own stories and share them with the group! Each session will have a unique theme that will be determined by the summer instructors.

July 12 - 16

Underwater Explorations: What better way to experience Nantucket than underwater? Nantucket is known for its ocean, harbor, beach, and dune ecosystems! We'll explore these aquatic and coastal systems, and the animals that live there, through such activities as seining, fishing, and beachcombing. Snorkeling and a visit to the MMA's Aquarium are also included in this week of wet, watery fun! Each session will have a unique theme that will be determined by the summer instructors.

Please note: Participants must demonstrate strong swimming ability to participate in snorkeling activities.

July 6 - 10, August 9 - 13

Trash to Treasure: Come on an upcycling adventure with the MMA and learn how to transform trash into useful and creative objects! We'll explore a variety of the island's diverse habitats and learn about the important resources they provide for all living things. Through games and art projects, we will discover ways to protect these important habitats, reduce the resources we use, and repurpose old clothes, household materials, and litter into cool products. Each session will have a unique theme that will be determined by the summer instructors.

July 5 - 9, August 2 - 6**Eco-Investigators Ages 10 - 12****Full Day Programs: 8:50 AM - 3:00 PM**

Members: \$505; Non-Members: \$580



Cosmic & Climate Connections: In celebration of Maria Mitchell's legacy, we will investigate the Earth, ocean and space, and how they are connected through climate science. Explore how changes in our climate will impact plant and animal populations, food sources, and our coast line through games, hands-on experiments, animal collection, and adventures into the island's unique and rare ecosystems. During a trip to one of the MMA's observatories, you will learn how NASA's observations from space have helped scientists understand how the Earth's climate has changed and how they observe weather on other planets. Each session will have a unique theme that will be determined by the summer instructors. This program promises to be out of this world!

June 21 - 25, July 19 - 23

Green Guardians: Do you have what it takes to be a Green Guardian of Nantucket? Explore this beautiful island as you investigate what it takes to protect our environment. Join us in a variety of service projects such as beach clean-ups, working in the MMA's Giving Garden, removing invasive plants for the Nantucket Conservation Foundation, or making pet toys for Safe Harbor for Animals. At the end of camp, you will receive a certificate of completion for the hours of service you provided. Other activities include kayaking, hiking, seining, and more! Each session will have a unique theme that will be determined by the summer instructors.

July 5 - July 9, August 16 - 20

Imitate to Innovate: Nature and invention collide during this biomimicry-based week! Discover how plant and animal adaptations have inspired the design of swimsuits, wind turbines, planes, trains, and so much more. Seek inspiration for your own inventions as you explore Nantucket's land, sea, and skies while kayaking along the coast, collecting and observing marine life, hiking through the forest, or meeting a red-tailed hawk! Combine your creativity and engineering skills as we build robots, conduct experiments, and design solutions to common problems. Each session will have a unique theme that will be determined by the summer instructors.

June 28 - July 2

Marine Bio Boot Camp: Have you ever wanted to be a marine biologist? Join us as we learn about our oceans from the plankton to the sharks and everything in between! Come and study invertebrate and fish anatomy through dissections, firsthand observations, and a visit to our Aquarium. We'll also snorkel at different spots around the island to find local marine species, embark on a kayak expedition to learn about physical oceanography, and, for the first time in MMA history, explore the oceans through swimming (at North Shore beaches only).

Please note: Participants must demonstrate strong swimming ability to participate in swimming and snorkeling activities.

July 26 - 30, August 9 - 13

Psyched for Citizen Science: Experience how you can be a part of the scientific community here on Nantucket or across the country by becoming a Citizen Scientist for the week. Learn about local and national Citizen Science projects you can join and develop the skills you need to monitor such animals as snakes, bats, beetles, frogs, and more. Collect data on invasive species and find out how to measure water quality. Each session will have a unique theme that will be determined by the summer instructors.

July 12 - 16, August 2 - 6



Teen Naturalist Leadership Program (NLP)

1:30 - 4:30 PM

Members: \$430; Non-Members: \$505

Max Capacity - 5

Community Service and Ecology

In addition to participating in activities offered at the MMA Aquarium, this program offers you the opportunity to work with other island organizations and take part in rewarding projects that benefit our island and community. Throughout the week, you will gain 5 hours of community service with our partners including the Nantucket Conservation Foundation and Safe Harbor for Animals. Activities may include invasive plant removal, garden maintenance or vegetable harvesting, making upcycled bags for the Food Bank, and more.

We require all students interested in volunteering at the MMA Aquarium and Natural Science Museum to complete at least one of the NLP courses.

July 5 - 9, July 19 - 23, August 2 - 6, August 16 - 20

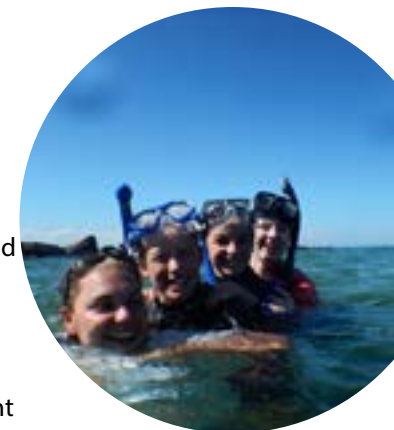
Marine and Terrestrial Ecology

During this program, you will explore the diverse marine and terrestrial ecosystems all around Nantucket. Study topics such as fish and invertebrate anatomy, physical oceanography, marine and terrestrial ecology, as well as animal classification and behaviors. Join us and learn while having fun snorkeling, seining, hiking, kayaking, beach combing, animal tracking, and more. Participants will build natural history knowledge and public speaking skills helpful for volunteering in museums, aquariums, or other natural science facilities. Additional opportunities may include fish and invertebrate dissections, fish printing, plankton collections, shell fishing, and more!

Please note: Participants must demonstrate strong swimming ability in order to snorkel.

We require all students interested in volunteering at the MMA Aquarium and Natural Science Museum to complete at least one of the NLP courses.

June 28 - July 2, July 12 - 16, July 26 - 30, August 9 - 13



Going Out in Style: How Sun-Like Stars End Their Lives

With Dr. Rodolfo Montez Jr.

Wednesday, June 9 from 7 - 8 PM via Zoom

Stars like our sun will end their lives in a spectacular display of light. Dr. Montez will provide a guided tour of some of his favorite Hubble images of stars at the end of their lives and explain the impact space telescopes have had on our understanding of how stars die.



Real-Life Death Stars: Measuring the Composition of Rocks on Alien Planets by Tearing Them Apart

With Dr. JJ Hermes

Wednesday, June 23 from 7 - 8 PM via Zoom

White dwarf stars are the endpoints of all low-mass stars, including our Sun, and their high density means that all heavy elements rapidly settle out of their atmospheres. However, many white dwarfs show heavy metals in their atmospheres. Dr. Hermes will discuss observations of the violent ends to many close-in planets and asteroids that are ripped apart and pollute white dwarf stars, revealing the bulk composition of rocky alien worlds.



What's the Space Weather Like on Proxima Centauri?

With Dr. Meredith MacGregor

Wednesday, June 30 from 7 - 8 PM via Zoom

Stars (including our Sun) are active, periodically releasing bursts of high energy radiation called flares, which can destroy molecules in the atmospheres of nearby exoplanets. To understand if any of our nearest neighbors are habitable, we need to determine how frequent and powerful these flares are. Dr. MacGregor will present on the largest flare ever detected from Proxima Centauri, the closest star to us that also hosts a potentially habitable planet.



Dark Matter in the Disordered Cosmos

With Dr. Chanda Prescod-Weinstein

Wednesday, July 7 from 7 - 8 PM via Zoom

Dr. Prescod-Weinstein will describe her efforts to understand the nature of mysterious dark matter. She will provide an overview of the general problem, and then describe her current approach, which is to characterize the behavior of a proposed dark matter particle, the axion. She will give some insight into how she is using a range of tools — model building, computation, and high energy astrophysics — to get at the basic question of, "If the axion is the dark matter, what does that mean for our universe?"



Taking the Water for Our City: Archaeology of New York City's Watershed Communities

With Dr. April Beisaw

Wednesday, July 21 from 7 - 8 PM via Zoom

Over the last nine years, Dr. Beisaw and her Vassar College students have hiked portions of the New York City-owned watershed to document the ruins of lives cut short to provide clean water to a distant City. In what was left behind, we can begin to estimate the price that rural people paid for providing clean water to NYC residents.



The Role of Science and Technology as a Catalyst for Social Change

With Gitanjali Rao

Wednesday, July 28 from 7 - 8 PM via Zoom

Gitanjali Rao was recognized as America's Top Young Scientist, and is an inventor, TED speaker, and author dedicated to inspiring students to innovate. In this talk, Rao will share her innovation journey including some of her recognized innovations, her process, the need for awareness and community service, and the importance of supporting youth and girls.



Scallops & Students: A Unique Research and Mentorship Program

With Dr. Val Hall

Wednesday, August 4 from 7 - 8 PM via Zoom

Dr. Hall will be joined by nine of her students for an overview of their summer laboratory experiences, describing the histological techniques used, from collecting scallops by boat to evaluating the prepared slides made from the scallops' gonads (reproductive organs).



National Science Foundation Research Experiences for Undergraduates (NSF-REU) Student Presentations

Wednesday, August 11 from 7 - 8 PM via Zoom

For more than fifty years, the Maria Mitchell Observatory (MMO) has offered summer research opportunities in astronomy and astrophysics for students on Nantucket. Six National Science Foundation Research Experiences for Undergraduates (NSF-REU) interns will present their individual research projects developed under the guidance of experienced astronomers.



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