

Education Program Guide



Virginia Museum of
NATURAL HISTORY

2020–2021



At-the-Museum

Planning Your Visit

Groups may request an engaging educational program led by a museum educator and an interpreter-led tour to highlight key elements relevant to your group's needs. Homeschool groups are welcomed. Please note, school group visits and programs are available weekdays from 9 a.m. to 4 p.m.

Upper level students have the option of participating in a program with either our education department or museum scientists. Please call 276-634-4185 for scheduling.

Reservations

Reservations are required and must be made at least two weeks in advance. For information or to schedule a visit, please call 276-634-4185 or e-mail discover@vmnh.virginia.gov.

Group Rates

Groups of 10 or more will receive discounted admission. One chaperone is required for every 10 students. Admission for teachers, required chaperones, and bus drivers is complimentary. Additional chaperones are \$5 each. Because groups enjoy a discounted admission rate, membership passes and other discounts/coupons are not valid toward group admission fees.

Group rates are found below. Added programs are \$4 per student and a guided tour is \$2 per participant.

Thanks to the support of Martinsville City and Henry County, education fees are discounted for public schools within these districts.

Museum Store

The Museum Store offers a variety of fun and educational items for your students. Student souvenir bags are available when requested in advance.



Homeschool Science & Engineering Academy

VMNH offers engaging educational programs for homeschool students. Held on the first and third Wednesday (September – May) from 10 to 11:15 a.m., programs are divided into age groups of 6 to 8, 9 to 11, and 12 and up. Cost is \$7 per participant. www.vmnh.net/homeschool-education

Doodle Bugs!



VMNH's Doodle Bugs program provides children ages 3–5 and their caregiver the opportunity to experience science firsthand! They will learn and grow together with this hour-long program. Programs are held on second Wednesdays (September – May) at 10 a.m. Cost is \$7 per participant. www.vmnh.net/doodle-bugs

Birthday Parties



Planning a birthday party? The museum is the perfect place to have a Dino-mite celebration! www.vmnh.net/birthday-parties

Sleepovers



Join us after hours for an exciting night of exploration! We offer programs for audiences of all ages! \$45 per participant. One chaperone is required for every five children. \$20 for each additional chaperone.

Scouts

Working on badge requirements? VMNH can assist with a wide variety of scout programs including sleepovers. www.vmnh.net/scouts

Admission Fees

	Adults (ages 18–59)	Children (ages 3–17); Seniors 60+; Military	Members; Children under 3
Per Person	\$10	\$5	Free
Group rates per person (10 or more)	\$5	\$3	Free

Details

At-the-Museum Programs

Enhance your museum visit by adding a program and a guided tour. Programs presented at the museum are 20 to 60 minutes depending on what other group activities are requested. A minimum of 8 participants is required. Programs are correlated to SOLs.

Outreach Education

Outreach programs bring museum educators to you. SOL-correlated programs are designed to be presented in a school environment, at a community center, or at other off-site locations. Programs are best suited for classes of up to 30 students or participants. Programs are 45 minutes to 1 hour. One program can be delivered for up to four sessions in the same day. In the event additional programs or staff are needed, an additional fee may apply. Programs are offered year-round and can be customized; a new program can be created upon request.

Number of Sessions	Fee
1	\$90
2	\$135
3	\$170
4	\$210

Thanks to the support of Martinsville City and Henry County, education fees are discounted for public schools within these districts. A nominal mileage fee will be added for programs outside of Henry County. For more information, please call 276-634-4185.

Distance Learning

VMNH distance learning programs connect you and your students to the museum or to field sites without leaving the classroom! For more information, please visit www.vmnh.net/content/uploads/PDF/Education/distancelearningguide.pdf

Number of Sessions	VMNH only	VMNH & on-site educator
1	\$90	\$180
2	\$135	\$270
3	\$170	\$340
4	\$210	\$420

Note: Depending on the location, additional fees may apply for mileage, staff travel time, or other expenses. Please call 276-634-4185 for more information.



Programs

Nature of Science

Scientific Investigations

Grades Pre-K–12

Students will learn what it takes to investigate like a scientist! They will engage in experimental design, hone their observation skills, even practice data collection and analysis all in challenging and fun ways. Choose the topic that best suits your students' needs from below.

- The 5 Senses
- Endangered Species
- Evolution
- Climate Change
- Resource Overconsumption
- Troubled Oceans
- Space
- Current Events

Programs *continued*

Physical Sciences

Light Science *Grades K-1, 5, 6, 8, 12*

Students will explore the science of light, and learn about waves, reflection, refraction, and the color spectrum using hands-on activities!

Marvelous Magnets *Grades K, 2*

Students conduct simple experiments involving magnetic fields, poles, attractions, and the uses of magnets.

I Like to Move It, Move It! *Grades K-2*

Explore the many ways objects move and the forces that cause movement. Students will design and build a device to demonstrate force and motion.

The Nature of Matter *Grades 2-3, 5-8, 10, 12*

Solids, liquids, and gases, oh my! Students will explore the distinguishing properties of matter including, atoms, elements, compounds, mixtures, and everything in between using hands-on experiments!

Sound Detectives *Grades 1, 5, 8, 12*

Students will investigate the world of sound by experiencing vibrations using various objects. Concepts include: motion of objects, vibration frequency, waves, and wavelength.

What a Shock! *Grades 5-12*

Working together, students will test objects for conductivity and experiment with open and closed circuits. Classes will explore conductors, insulators, circuits, electrical energy, static and current electricity.



Life Sciences

Grow As We Go *Grades Pre-K-1*

Does the baby look like its parents? Life processes are illustrated as students investigate the basic needs and life cycles of living things through observing the physical characteristics of plants and animals.

Bears in the Forest *Grades Pre-K-2*

Have fun learning about habitats, seasons and the life needs and characteristics of bears in this active role-play program adapted from Project WILD®.

Animal Needs *Grades Pre-K-4, 7-12*

Meet the museum's live animals! Students will explore life needs, characteristics, adaptations, and habitats as they interact with our friendly critters.

Dino Dig *Grades Pre-K-3*

Students will think like paleontologists during a mock dig for dinosaur "bones," touch fossils from different geological periods, and learn how fossils are formed.

Fantastic Food Webs! *Grades 1-4, 6-12*

Explore food web basics and the connections between organisms and the environment. Please choose one:

Owl Pellets: Students will explore the predator/prey relationship as they dissect owl pellets.
There is an extra \$2 charge per student for this option.

Live Animals: Students will learn about food webs while getting up close and personal with a variety of live animals!

Let's Make a Fossil *Grades 3, 5, 7-12*

Students will explore what makes a fossil a fossil, make observations to determine what we can learn from fossils, and explore the processes of how fossils form. Students will even make a fossil of their very own to keep!
There is an extra \$2 charge per student for this program.

Exploring Nature in the Community *Grades K-12*

Enjoy a unique experience in an outdoor, natural laboratory exploring terrestrial or aquatic ecology. These hands-on, highly interactive programs can be customized.

Programs *continued*

Earth Sciences

Rocks and Minerals Uncovered *Grades 1, 4–5, ES*

Students will explore the bountiful resources of the earth through rock and mineral samples.

Digging In *Grades 2–5*

Students will explore the causes and results of weathering and erosion, the landforms that are affected and what part plants and animals play. Let's get a little dirty as we examine the components of soil, its origin and its importance as a Virginia natural resource.

Water Cycle Voyage *Grade 3*

Students will learn about the water cycle as they "become" water droplets through highly interactive games. *Additional fee of \$1 per student.*

Renewable or Not? *Grades 4–6*

Students will explore sources, transformations, and uses of renewable and nonrenewable energy through grade appropriate activities. *Additional fee of \$1 per student.*

Space Voyage *Grades 4, 6*

Students will journey through space as they create scale models exploring planet sizes, distance, and characteristics that are out-of-this world.

We're All in a Watershed *Grades 1–12*

This program incorporates an interactive watershed model to illustrate the basic properties and characteristics of watersheds.

Out of this World

Students will have the opportunity to use VMNH's 8-inch reflector telescope to view constellations and various other celestial objects. This program is offered as night program only: 7–8:30 p.m. *Special pricing applies; please call for details.*

Pollution Prints *Grades K–12*

Water is a valuable natural resource. In the program, students will learn about the importance of water, create their water footprint, and look at what causes water pollution and prevention.

Trees for the Future *Grades Pre-K–12*

We all need trees! During this hands-on program, learn about types of habitats, tree parts, and the role that trees play in an ecosystem.

History & Social Studies

Eastern Woodland Indians *Grades K–5*

Students will learn about the natural resources that Eastern Woodland Indians used in their daily activities. Students will examine artifacts and reproductions to get a glimpse of the lifestyles of the Indians before colonization.

Link to the Past *Grade 3*

Students will get a choice to explore either ancient Egypt and China or ancient Greece and Rome through comparison of cultures. Student led inquiry will be followed by a craft reinforcing important cultural topics.

Historical Climate Change *Grades 6–12*

Explore past climates and their effects on historical populations within North America. Students will be able to map climate change and discuss its impact on how people interacted with their environment.

Marvels of Technology *Grade 4–12*

Immerse students in past technological inventions ranging from the ancient world to the early 1900s. Students will explore cultures, while building variations on favored inventions.

Math and Engineering

Speedy Building *Grades 3, 5*

Students will use LEGO bricks, axles, and wheels to build cars to race to explore motion, friction, energy, and simple machines. They will measure distance and time traveled, and will construct a graph to understand how to calculate speed.



Exhibits

The museum offers innovative, award-winning exhibits highlighting the unique features of Virginia's natural history. All exhibits and presentations are correlated to Virginia education standards. The following is an overview of the 2020–21 exhibits.

The Harvest Foundation Hall of Ancient Life serves as an exciting gathering space that introduces the museum's research and collections.

Displays include:

- Ice Age Exhibit
- *Allosaurus*
- *Eobalaenoptera*
- *Pteranodon*
- Stromatolite
- *Acrocanthosaurus*
- *Stories from Skeletons* column case exhibit
- Viewable working laboratories including the Elster Foundation Vertebrate Paleontology and Archaeology Labs.

The Hooker Furniture Discovery Reef provides an exciting underwater adventure area for young children on a sunken ship.

Uncovering Virginia features representations of six research sites in Virginia where VMNH scientists and their colleagues have worked or are working.



Lee & George W. Lester, II How Nature Works

demonstrates how energy from within the earth's crust and the sun have shaped the earth.

- ***How Nature Works: Rocks*** features dramatic landscape models that reveal how the world is shaped by geological forces.
- ***How Nature Works: Life*** teaches visitors that almost all living things on earth depend, directly or indirectly, on the sun as an energy source.

Hahn Hall of Biodiversity features a variety of taxidermied African mammals including a lion, hyena, and several antelope.

Fossil Overlook is a prehistoric life exhibit located on the museum's upper-level, and includes a variety of fossils, detailed models, and casts for visitors of all ages. An up-close and personal view of the flying reptile, *Pteranodon* is available here, as well. The exhibit features new displays sponsored by the Hermes Family Foundation from prehistoric seas including a *Dunkleosteus* skull and Mosasaur fossils.

Dinosaurs in the Special Exhibit Hall allows visitors to travel back in time to a land of giants. The exhibit features life-sized, cast skeletons of *Stegosaurus* and *Triceratops*. *Part of this exhibit is out on loan.*

Wild About Cats is now open in the Special Exhibit Hall. Take a photo safari around the world and learn more about wild cats.

Farmers, Warriors, Builders: The Hidden Life of Ants is now open in the Suzanne M. Lacy Education Center. This Smithsonian exhibit features stunning macro photographs that tell incredible stories about the lives of ants. *This exhibit was donated to VMNH for educational purposes by the Smithsonian Institution at the end of its national tour in 2016. The original tour ran from 2011 to 2016.*

Festivals

2020

Dragon Festival

October 16 (Student Day)
October 17 (Public)

2021

Wildlife Festival

January 22 (Student Day)
January 23 (Public)

Flight Festival

April 24 (Public)

Dino Festival

July 23–24 (Public)

Please visit www.vmnh.net for festival details.



Memberships

Are you a VMNH member? Join today to support the museum while receiving special members' only benefits, including free unlimited admission, invitations to receptions and events, discounts in the VMNH Museum Store and PALEO Café, and free reciprocal admission to hundreds of museums and science centers nationwide. Save 20% by taking advantage of the two-year option. For more information, please visit our website at www.vmnh.net/membership/new or call 276-634-4162.



Doodle Bugs!

Sign up today!

Pre-registration for ages 3–5 is required one week prior to each event by contacting the museum at 276-634-4185 or discover@vmnh.virginia.gov.

- September 9 *Wild About Cats*
- October 14 *Dragon Myths*
- November 10 *Virginia Indians*
- December 9 *Marvelous Food Messes*
- January 13 *Winter Wildlife*
- February 10 *Under the Sea*
- March 10 *Engineering/Force & Motion: Roll with the Wind*
- April 14 *April Showers Bring May Flowers*
- May 12 *Nature Math*



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