

YOUR PARTNER IN EXPLORATION AND LEARNING
SCHOOL & TEACHER PROGRAMS

2015–2016



**NEWARK
MUSEUM**
always exciting.

NEW EXHIBITION:
The Shape of Light: Gabriel Dawe
On view September 19, 2015–January 10, 2016

For Students

Express Yourself: The Shape of Light (Grades 3–12)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 50 students

This fall, the Newark Museum presents *The Shape of Light: Gabriel Dawe*, featuring large-scale, site-specific installations, sculptural works and works on paper by internationally known multi-media artist Gabriel Dawe. The exhibition allows students to explore connections between textiles, architecture and the human body. As educator's lead students through the exhibition, they will critique subjectively and objectively how Dawe explores the power of clothing to express identity and personal history with works that highlight Dawe's unique engagement with materials and processes.

Public Program

FESTIVAL OF COLOR & LIGHT

Saturday, October 17, noon-9 pm

This all-day program explores *The Shape of Light* and related exhibitions through lecture, special gallery tours, film and planetarium programs, demonstrations, hands-on workshops, and an after-hours program.

This event is part of the Newark Arts Council Open Doors, a city-wide arts festival and community event, and is generously supported by Marie and Joe Melone.

Colorful Cocktails and Collage

Paint and Sip

Saturday, October 17, 5-6:45 pm or 7-8:45 pm

Create your own work of art, No experience required! After viewing some of the Newark Museum's masterpieces, students of the arts will be able to create a very special take away designed by the artist within themselves. With step by step instructions from one of our local Artists you're creative juices will flow in a fun and relaxed environment while enjoying colorful cocktails, lively music and an atmosphere designed to excite your palate. All materials are provided.

Registration is required

For Teachers

Educator's Evenings

Thursdays, October 22 & 29, 4-7 pm
(registration required; send e-mail to:
***teacherresources@newarkmuseum.org*)**

October 22 (all grades)

Programs encourage teachers from different curriculum areas and school administrators who work with pre-K through University-age students to explore the Museum and learn ways that they can incorporate the Museum as a resource for their students' learning.

October 29 -- *Paint and Sip* (all grades)

No art experience required! A Museum artist provides step by step instructions in a fun and relaxed environment. Participants create a work of art inspired by the Museum's exhibitions. Wine and materials provided.

Attend any Educator's Evening and receive a 15% discount on the required field trip fees. However, to be eligible for this discount, you must register by *November 13, 2015*. The discount will not apply to those registering after this date.

A. STUDENT PROGRAMS AT THE MUSEUM

How to Register:

Advance registration is required for all visiting school groups.
At least one month advance registration is required due to space limitations.

Call 973.596.6690 [Hearing impaired can call: 711 (TTY)]

Fax 973.596.6614 (registration form hyperlink to the registration form)

E-mail a registration form to: schoolgrouppreservations@newarkmuseum.org

If you call, have your school calendar nearby. Be prepared to tell the scheduler:

1. First, second, third choices for date/time of visit.
2. School name, address, phone number.
3. Teacher's name, phone number, best time to phone.
4. Program(s) you wish to schedule.
5. Number of students and chaperones.
6. Grade(s)
7. Mode of travel and number of buses/vans/cars.
8. Any special needs (limited English language, physical or learning disabilities).
The Museum offers barrier-free access.

Fees for Museum Visits:

(per person, including students, teachers, all chaperones)

<u>All schools</u>	<u>1 Program</u>	<u>2 Programs</u>
September–October	\$7	\$9
November–December	\$8	\$10
January–June	\$10	\$12

NOTE: Newark Public Schools are FREE (excluding Planetarium programs)

Payment is due on arrival at the South Wing Entrance.

Cash, school check payable to “Newark Museum Association” (no personal checks will be accepted); credit card, school purchase orders, or money order are accepted.

NOTE: A \$30 booking and processing fee will be added to each reservation (except for Newark Public Schools).

General Information:

Visiting Dates and Times

Guided programs are available Wednesday, Thursday and Friday for all school groups.

Guided programs are available on Tuesdays for groups of 100 students or more.

Programs begin at 9:30 am, 11:15 am and 12:30 pm for elementary, middle and high school programs

Early childhood tours (Grades Pre-K–2) begin and 10 am, 11 am and noon.

Group Size

Most programs can accommodate 25–50 students, unless otherwise noted. **It is required that groups have 1 adult chaperone for every 15 students, but no more than 1 adult for every 10 students.**

Educational Content

All programs address the core curriculum content standards established by the New Jersey Department of Education and the National Common Core that are led by professional Museum Educators. Each program is designed to be age-appropriate and uses inquiry/discussion to actively engage school children in object-based learning. **Standards addressed for each program can be found on page 28**

Arrival Time

Plan to arrive 15 minutes before the scheduled tour. Please do not arrive earlier since there is no group waiting area, and groups are not allowed to tour the galleries without a guide. Be punctual as it is not possible to make up lost time with late-arriving groups.

Lunch

Schools must schedule a time in the Museum's lunchroom if they plan to eat on-site. Bring lunches, since there are no facilities to buy them. Lunches are collected by Museum staff and delivered to the lunchroom for you.

Self-Guided Tours

Schools are also welcome for self-guided visits each Wednesday, Thursday and Friday, 12:30–5 pm. **Pre-registration and Museum admission fees are required for school groups visiting for only self-guided touring.**

Buses/parking

Drop-off for groups is at the front of the South Wing Entrance. Attended on-site parking is available in the adjacent Museum parking lot for vans and cars only, with entrances located at Washington St. and Central Ave. Parking fees (\$7/car or \$15/van, subject to change) must be paid in cash directly to the parking lot attendant—checks and credits cards are not accepted. Do not include parking fee in your payment to the Museum.

Homeschool Groups

The Newark Museum offers a variety of resources and programs that can enrich home-based learning. All curriculum-based school programs can be scheduled for groups of homeschool students and tailored to their specific needs. Booking procedures for homeschool groups are the same as stated above.

Frequently Asked Questions:

What should my students know before the trip?

We encourage teachers to cover the content of the program with students before their visit. Having background knowledge to build from creates an optimal learning environment in the Museum. Prior to your trip, please review the following to ensure a successful visit for student, adults, chaperones and aides...

- Touching or climbing on the artwork/sculptures in the galleries is not allowed.
- All bags and back-packs must be left in the educational lobby.
- Food, drinks, candy and gum are not allowed in the galleries.
- Respect other classes visiting the Museum by keeping a quiet inside voice.
- Groups must remain together in the gallery space—adults and children alike.
- Be prepared to have fun!

Can my group tour the galleries on our own during a break?

Because the Museum is not open to the public before noon on Wednesdays, Thursdays and Fridays, groups are not allowed to tour the exhibitions without a Museum staff member. All self-guiding must be done after 12:30 pm on Wednesdays, Thursdays and Fridays. If your group would like to take a self-guided tour on Tuesdays afternoon, an additional \$2 per person fee will be added to your group reservation per 1 hour tour; advance notice required.

How should I organize my group before arrival?

Upon registering, a group organizational chart will be sent with your confirmation letter. For larger groups, we encourage teachers to fill out the chart and share with colleagues and chaperones. To assist in your arrival, we also encourage you to send the school programs department a copy of the completed organizational chart prior to your trip.

Where can the school nurse sit?

Should a school nurse accompany your group, there is a designated central location available for the nurse to sit. Please note that nurses cannot walk between groups without a Museum employee.

What if my group needs special accommodations?

The Museum welcomes all visitors to experience a school program tour. Please contact the school programs department ahead of time (973.596.6690) if your group should require any special accommodations.

Cancellation Policy

The Newark Museum requires all group cancellation to be completed in writing via e-mail. Should your group need to cancel or reschedule a trip, you must send an e-mail to schoolgrouppreservations@newarkmuseum.org at least **30 days BEFORE** the scheduled trip date to avoid a cancellation fee. Upon receipt, an e-mail will be sent to you verifying cancellation. Any group that does not send a cancellation e-mail within 30 days of the scheduled trip date will incur a cancellation fee as detailed below:

Cancelling or rescheduling after **30 days** of a scheduled visit will be charged **50% of the total bill**.

Cancelling or rescheduling after **15 days** of a scheduled visit will be charged the **FULL amount invoiced**.

***Cancellation Policy for Newark Public Schools:** While school visits are free for Newark Public schools (excluding planetarium programs), the above policy and fees will be applied to all group cancellations. An invoice will be processed using the regular fees for Museum visits, and the cancellation fee will be applied accordingly.

The booking fee is not refundable.

Newark Museum Junior Shop

There is a small gift shop located in the Museum's Education Lobby, featuring inexpensive souvenirs and gifts specifically for children to purchase. The Junior Shop is available to school groups, depending on the numbers of other student visitors—estimate 30 minutes for 20 children. You can also order pre-packaged souvenir bags (\$2 or \$5); order 21 days in advance by calling 973.596.6678.

2. GALLERY LESSONS & WORKSHOPS

Early Childhood Programs (Grades Pre-K–2)

Arts and Humanities

African Adventure

10 am, 11 am and noon; 60 minutes, Limit: 20 students

Student can explore culture and art in the African collection while learning Yoruba proverbs, participate in a “call and response” song with musical instruments, touch a wide variety of textiles and clothing, listen to a storytelling exercise, and create African-inspired jewelry.

While participating on the *African Adventure* tour, students cultivate early learning skills including:

- Investigative thinking as they identify the differences in various African communities, while drawing comparisons to their our community
- Vocabulary development by connect meanings of new domain-specific words to vocabulary already known
- Collaborative communication as they contribute to group discussions while posing and listening to different view points

ArtSmart

10 am, 11 am and noon; 60 minutes, Limit: 20 students

Discover line, shape, color and texture in paintings and sculptures from around the world. Students become artists as they participate in a group sculpture activity, storytelling and create scratch artwork to take home.

The *Artsmart* program fosters early learning skills including:

- Artistic understanding as they identify the basic elements of art and principles of design in diverse types of artwork.
- Creative thinking and new vocabulary building as they integrating color, form, lines and shapes into their artwork
- Collaboration with peers and teachers to stimulate the creative process

Asian Adventure

10 am, 11 am and noon; 60 minutes, Limit: 20 students

Discovering the Asian art galleries through their five senses, students meet dragons from China, and learn about the fierce protectors who occupy the Tibetan Buddhist altar.

During the program, students demonstrate early learning skills including;

- Critical thinking as they discuss the difference between their culture and Asian communities
- Literary vocabulary development with content-specific words

My Community: Discovering What Makes a Community (Grades Pre-K–2)

10 am, 11 am and noon; 60 minutes, Limit: 20 students

What are the elements that make communities special, and how do they differ around the world? Students will draw, write and read about communities found in their own backyard, the museum artworks, and in the collections from around the world! During *My Community*, students foster early learning skills including:

- Demonstrating an awareness of one’s own culture and other cultures
- Contribute to group discussions with peers and teachers

- Develop vocabulary and higher-order thinking by viewing art works

Native American Adventure (Grades Pre-K–2)

(see page 17 for related *Earth, Moon and Sun* planetarium program)

10 am, 11 am and noon; 60 minutes, Limit: 20 students

Visit our Native American galleries and learn how Native Americans used natural resources for food, clothing and shelter; touch handling artifacts including a buffalo horn and a cradle, listen to a Native American story, and design a traditional carry-bag called a *parfleche* with pictographs. During the *Native American Adventure* program, students demonstrate early learning skills including:

- Critical thinking as they discuss the differences between their culture and the Native American community
- Literacy development as they participate in an interactive reading exercise to understand the components of a story
- Artistic observation while identifying the materials and purpose of Native American artworks

Art and Science

On a Wing

10 am, 11 am and noon; 60 minutes, Limit: 20 students

Migrate around the Museum and examine birds, nests, feathers and eggs from many species. Learn how artists painted birds by viewing art works in the American Art galleries, listen to a bird tale, and create a bird to take home.

On a Wing builds early learning skills as students:

- Compare the characteristics of birds
- Contribute to group discussion by sharing new ideas and experiences
- Develop creative art skills with the help of peers

Safari Trip

10 am, 11 am and noon; 60 minutes, Limit: 20 students

Embark on a group safari as you tour a variety of the Museum’s galleries to hunt for different species of animals. Touch real animal artifacts, listen to an animal tale, and create an animal from modeling clay to take home!

Safari Trip develops early learning skills as students:

- Contribute to group discussions with the Museum educator and peers while integrating personal accounts with newly gained facts about animals
- Connect the meaning of new words to their established vocabulary
- Develop artistic creativity and motor skills during the culminating exercise

Transportation: How We Get Around

10am, 11 am and noon; 60minutes, Limit: 20 students

“Transportation: How We Get Around” is a curriculum-based program which helps students explore modes of transportation by using Science, Technology, Engineering, Art and Mathematics (STEAM). STEAM programs encourage early learners to collaborate, use creativity, critical reasoning, and problem solving which promotes higher order thinking and reaches the multiple intelligences.

While participating on the transportation tour, students will be able to:

- Find and describe the ways that people get from place to place from observation in the gallery
- Compare images in the works of art to their own lives

- Understand how physical activities can benefit their lives

Science Gallery

Dynamic Earth

10 am, 11 am and noon, 60 minutes. Limit 25 students

Discover the forces that constantly change our planet through a hands-on, tactile tour of our science exhibit *Dynamic Earth*. Children will examine real fossils and other specimens as they learn about the living and non-living things that fill our Earth.

Students will be able to:

- Examine the structure of animals and figure out the function of each part.
- Observe how wind and water change the shape of the land.
- Learn about changes in the Earth that took place over a long time.

Backyard Bug Safari

10 am, 11 am and noon; 60 minutes, Limit: 25 students

Investigate bugs and insects from all over the world in our *Dynamic Earth* exhibit.

Students will look for bugs, create a model insect and then meet insects and their cousins face to face.

Backyard Bug Safari builds early childhood skills as student:

- Examine the structure of insects and arachnids
- Learn what foods various insects eat
- Figure out how insects communicate

Dinosaur Detectives

10 am, 11 am and noon; 60 minutes, Limit: 25 students

Students learn about dinosaurs and other prehistoric animals by examining real fossils such as trilobites and dinosaur footprints in the *Dynamic Earth* exhibit. They'll create a description of a specific dinosaur by observing, analyzing and modeling what they learn from the evidence found in fossils.

Dinosaur Detectives enables students to:

- See how some events on Earth occur quickly (the meteor killing the dinosaurs) or very slowly (continental movements)
- Living things need water, air and resources and live where they can get them.
- See how fossil evidence can tell us about the Earth's past.

Elementary Programs (Grades 3–6)

Arts and Humanities

Building Bridges: Exploring Communities around the World (Grades 3–5)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 50 students

Take a trip through the Museum's vast collection of art from around the world and explore diverse cultures and their similarities while learning respect for the identity of others on a individual, community, national or global level. *Building Bridges* develops student learning skills by enabling them to:

- Draw comparisons between their own lives and those around the world
- Analyze cultural objects for their historic and artistic value

The Ballantine House Mystery: “Who Done It?” (Grades 3–5)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 50 students

Students become detectives as they step into the Victorian era through an exploration of the Ballantine House to find the home’s missing jewels! Collaborating as a team, the students will solve the mystery using clues they find in the house’s gilded rooms and vast display of ornate objects. *Who Done It* nurtures skill sets for students as they:

- Explore the community of Newark during the turn of the century and draw comparisons to communities today
- Compare family life for children living during the Victorian Era to modern times
- Recognize a problem and brainstorm ways to solve it collaboratively.

Early America (Grades 3–5)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 50 students

Be transported to the 18th and 19th centuries by entering the Museum’s authentic one-room schoolhouse (ca. 1784) and by studying artworks in the American Art galleries; students write with quill pens during an 18th-century penmanship lesson. *Early America* develops student learning skills including:

- Analysis of cultural objects for their historical and artistic value
- Assess the changes of technology, society and government from the birth of America to modern times seen in collection of the Museum
- Develop abstract thought and higher order thinking that is stimulated by guided viewing of American artworks

Express Yourself: Exploring the World through Art (Grades 3–6)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 50 students

Hands-on, minds-on gallery workshops are designed to heighten observation and critical thinking skills by focusing on aesthetics and critique. Presentations include cross-curricular activities that combine language arts literacy, social studies and visual arts to develop skills in line with the NJ ASK and GEPA tests.

Express Yourself cultivates literary, artistic, analytic, critical thinking and collaborative skills for students as they:

- Create written responses to artworks found in the Museum’s collections
- Contribute to group discussions with peers and educators by listening to and posing different view points
- Develop abstract thought and higher order thinking that is stimulated by guided viewing of art
- Identify artistic elements in select masterworks of American art and deduce their significance to interpreting American history

Choices include:

Express Yourself: American Art

Discover symbols and stories in American art from the 18th, 19th & 20th centuries.

Express Yourself: African and African-American Art

Connect links between utilitarian function and aesthetics in traditional approaches to art in Africa, and explore the history and contemporary ideas in creations by African–American artists.

Express Yourself: Asian Art

Travel throughout Asia in our new gallery installations of art from China, Korea, Japan, India, Southeast Asia and Tibet.

Mysteries & Myths of the Ancient World (select Egypt or Greece & Rome)
(Grades 3–5)

(see page 17 for related *Legends of the Night Sky* planetarium program)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 50 students

Students become archaeologists as they use the artifacts of the Museum’s Classical Gallery to discover what life was like in ancient Egypt or ancient Greece and Rome. Students also create a clay scarab (Egypt) or sculpture (Greece and Rome) in our art studio. *Mysteries & Myths* foster student skills as they:

- Analyze cultural objects for their historical and artistic value
- Determine how geography and the availability of natural resources influenced the development of the political, economic and cultural systems
- Work individually to create three-dimensional work of art that make cohesive visual statements and that employ the elements of ancient principles of design.

Native American Journey: Eastern Woodlands, Plains & the South West
(Grades 3–5)

(see page 17 for related *Earth, Moon and Sun* planetarium program)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 50 students

Compare and contrast traditional and modern ways of life through the tools, baskets, pottery and clothing produced by Native Americans. Also, create clay bowls in the style used by the Hopi people of the Southwest. Through *Express Yourself: Native American Art* students foster a variety of skills as they:

- Use writing skills to develop a reaction piece based on artwork found in the collection
- Contribute to group discussions while posing and listening to different view points
- Analyze cultural objects for their historical and artistic value
- Identify the differences in various Native American communities and compare to them to our community

Art and Science

Water, Water Everywhere (Grades 3–6)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 25 students

Using scientific investigation and experiments, students discover the properties of water and nature’s water cycle. Then they’ll examine and sketch water through artists’ eyes in the Museum’s American art galleries.

Water, Water Everywhere! promotes investigative skills as students:

- Actively engage in the scientific process while conducting water experiments in a lab
- Work collaboratively with peers to perform experiments
- Assess artworks for their artistic and scientific value

Science Gallery

Dynamic Earth (Grades 3–6)

9:30 am, 11:15 am and 12:30 pm, 75 minutes, Limit: 25 students

Students explore the ever-changing Earth from 4.6 million years ago to the present, mapping the connections between climate, geology and the life that inhabits it. They will also study of ancient fossils and investigate the incredible adaptations of living plants and animals.

Dynamic Earth enables students to:

- Connect the changes in the Earth and weather to the survival or extinction of some species of plants and animals
- Understand that particular organisms can only survive in particular environments.
- Demonstrate an understanding of the motion of tectonic plates and its consequences

Geology Rocks! (Grades 3–6)

9:30 am, 11:15 am and 12:30 pm, 75 minutes, Limit: 25 students

Students explore the history of the Earth through the geological forces—mountain-building, volcanoes, erosion and earthquakes—that shaped it. Evidence will be found in the very rocks below our feet as we investigate the rock cycle and the forces that change them. This program takes place in the Victoria Hall of Science, featuring the exhibit *Dynamic Earth: Revealing Nature's Secrets*.

Geology Rocks! enables students to:

- Understand the role that weathering, plate tectonics and gravity have in altering the geology of an area
- Deduce that Earth's physical features occur in patterns, as do earthquakes and volcanoes

Fossils Tell a Tale (Grades 3–6)

9:30 am, 11:15 am and 12:30 pm, 75 minutes, Limit: 25 students

Every fossil contains clues about the world when it was made. Students will look for those clues by examining the Museum's exceptional collection of fossils—petrified wood, ammonites, trilobites, shark teeth and plants—and infer what they reveal about the ancient Earth. This program takes place in the Victoria Hall of Science, featuring the exhibit *Dynamic Earth: Revealing Nature's Secrets*.

Fossils Tell a Tale enables students to:

- Observe how fossils provide evidence about the types of organisms and environments that existed long ago.
- Discover that useful genetic traits are passed from one generation to the next, through the study of fossil specimens
- Understand that particular organisms can only survive in particular environments. (adaptation).

Science Labs

Forensic Science (Grades 3–6)

9:30 am, 1:15 am and 12:30 pm, 75 minutes, Limit: 25 students

Students explore the processes of scientific investigation by examining evidence. They will conduct forensic tests such as blood typing and fingerprint analysis and explore chain of evidence and the reliability of eye witness accounts.

- Make observations and/or measurements to provide evidence of what has changed/occurred.
- Use cause and effect relationships to predict phenomena
- Make observations and/or measurements to produce data to serve as the basis for evidence for an explanation of a phenomenon

What's In Our Water? (Grades 3-6)

9:30 am, 11:15 am and 12:30 pm, 75 minutes

Limit: 25 students

Students investigate the health of an ecosystem through analyzing its water. Using water-quality tests for acidity, chemicals and non-point-source pollutions, students will test water and see the effects of the pollutants on microorganisms.

What's In Our Water? Enables students to:

- Use scientific principles and models to frame and synthesize scientific arguments and pose theories
- Create a model of ecosystems in two different locations, and compare and contrast the living and nonliving components
- Compare and contrast structures that have similar functions in various organisms, and explain how those functions may be carried out by structures that have different physical appearances.

Middle and High School Programming (Grades 7–12)

Arts and Humanities

Ballantine House: Family Life in the Gilded Age (Grades 7–12)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 50 students

Students step back in time as they visit the 1885 Ballantine family home. Learn how modern American family customs and technology had their origins in the Victorian era including formal rituals for ‘visiting’ and proper dinner etiquette for seven-course meals. Discover what Mark Twain meant when he called it “The Gilded Age.”

The *Ballantine House* program develops students’ skills as they:

- Analyze the different roles of people living during the 1880s including an assessment of their impact on the larger societal and technological implications of the time
- Compare the societal norms of the Victorian Age and draw comparisons to daily life in modern society
- Develop higher order thinking through the practice of artistically based guided questioning

Western Expansion (Grades 7–12)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 25 students

Students join a “wagon train” as they explore Manifest Destiny and how it affected the growth of the United States. Landscapes by 19th-century American artists, pioneer artifacts, plus textiles and pottery made by Native Americans along with readings from a primary source child’s diary will be featured on the journey West. During the journey, students:

- Analyze cultural objects for their historical and artistic value
- Interpret symbolism and metaphors embedded in landscape artworks
- Develop literary skills while writing a narrative reaction piece based on artwork

Express Yourself: Exploring the World through Art (Grades 7–12)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 50 students

Hands-on, minds-on gallery workshops are designed to heighten observation and critical thinking skills by focusing on aesthetics and critique. Presentations include cross-curricular activities that combine language arts literacy, social studies and visual arts to develop skills in line with the NJ ASK and GEPA tests. *Express Yourself* cultivates literary, artistic, analytic, critical thinking and collaborative skills for students as they:

- Create written responses to artworks found in the Newark Museum collection.
- Contribute to group discussions with peers and educators by listening to and posing different view points
- Develop abstract thought and higher order thinking that is stimulated by guided viewing of art
- Identify artistic elements in select masterworks of American art and deduce their significance to interpreting American history

Choices include:

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Discover symbols and stories in American art from the 18th, 19th & 20th centuries.

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Express Yourself: Asian Art

Travel throughout Asia in our new gallery installations of art from China, Korea, Japan, India, Southeast Asia and Tibet.

Art and Science

Water, Water Everywhere (Grades 7–8)

9:30 am, 11:15 am and 12:30 pm; 75 minutes, Limit: 25 students

Using scientific investigation and experiments, students discover the properties of water and nature’s water cycle. They’ll then examine and sketch water through artists’ eyes in the Museum’s American Art galleries. *Water, Water Everywhere!* promotes investigative skills as students:

- Actively engage in the scientific process while conducting water experiments in a lab.
- Work collaboratively with peers to perform experiments
- Assess artworks for their artistic and scientific value

Design Your Own Museum Tour (Grades 7–12)

High school curriculum supervisors and teachers are invited to design their own tour, linking the Museum’s collection to school curriculum. Choices include American Art & History, Asian Art, African Art, Native American Art. For details, contact the Senior Manager for School and Teachers Programs at 973.596.6603, or send an e-mail to: teacherresources@newarkmuseum.org

Science Gallery

Dynamic Earth (Grades 7–12)

9:30 am, 11:15 am and 12:30 pm, 75 minutes, Limit: 25 students

Students explore the ever-changing Earth from 4.6 million years ago to the present, mapping the connections between climate, geology and the life that inhabits it. They will also be able to study ancient fossils and investigate the incredible adaptations of living plants and animals.

- Connect the changes in the Earth and weather to the survival or extinction of some species of plants and animals
- Understand that particular organisms can only survive in particular environments.

- Demonstrate an understanding of the motion of tectonic plates and its consequences

Fossils Tell a Tale (Grades 7 & 8)

9:30 am, 11:15 am and 12:30 pm, 75 minutes, Limit: 25 students

Every fossil contains clues about the world when it was made. Students will look for those clues by examining the Museum’s exceptional collection of fossils – petrified wood, ammonites, trilobites, shark teeth and plants – and infer what they reveal about the ancient Earth. This program takes place in our Dynamic Earth: Revealing Nature’s Secrets exhibit.

Fossils Tell a Tale enables students to:

- Observe how fossils provide evidence about the types of organisms and environments that existed long ago.
- Discover that useful genetic traits are passed from one generation to the next, through the study of fossil specimens
- Understand that particular organisms can only survive in particular environments. (adaptation).

Forensic Science (Grades 7–9)

9:30 am, 11:15 am and 12:30 pm, 75 minutes, Limit: 25 students

Students explore the processes of scientific investigation by examining evidence. They will conduct forensic tests such as blood typing and fingerprint analysis and explore chain of evidence and the reliability of eye witness accounts.

- Make observations and/or measurements to provide evidence of what has changed/occurred.
- Use cause and effect relationships to predict phenomena
- Make observations and/or measurements to produce data to serve as the basis for evidence for an explanation of a phenomenon

What’s In Our Water? (Grade 7)

9:30 am, 11:15 am and 12:30 pm, 75 minutes, Limit: 25 students

Students investigate the health of an ecosystem through analyzing its water. Using water-quality tests for acidity, chemicals and non-point-source pollutions, students will test water and see the effects of the pollutants on microorganisms.

What’s In Our Water? Enables students to:

- Use scientific principles and models to frame and synthesize scientific arguments and pose theories
- Create a model of ecosystems in two different locations, and compare and contrast the living and nonliving components
- Compare and contrast structures that have similar functions in various organisms, and explain how those functions may be carried out by structures that have different physical appearances.

3. PLANETARIUM PROGRAMS

New Jersey's Place for Space!

The Alice and Leonard Dreyfuss Planetarium uses state-of-the-art digital “Full Dome” high-resolution video projectors and surround sound system to bring your students closer to the cosmos than ever before. The planetarium also features exciting new programs that will immerse your students in an exciting learning environment. Each planetarium program includes audience participation and a question/answer period with a Museum astronomer.

Group Size:

The planetarium seats a maximum of 50. The total number of students and adults **may not** exceed 50 or the number of seats stated on your confirmation. Larger groups can be split. Minimum group size is 10 students. Barrier-free seating is available.

Program Times:

Programs **must** begin on time, so plan accordingly.

Times available: Wednesdays, Thursdays and Fridays at 9:30 am, 11:15 am and 12:30 pm

All Planetarium programs are approximately **45 minutes**.

Please note: the Planetarium is very popular, so you'll want to make sure you schedule your visit early.

Planetarium renovations made possible by a grant from the National Aeronautics & Space Administration (NASA).

Planetarium Programs

One World, One Sky (Pre-K & K; ages 4–6)

Sesame Street's Big Bird, Elmo and Hu Hu Zhu learn about the Sun, the Moon, and the stars and constellations of the nighttime sky. One World, One Sky allows students to

- Observe the moon phases, day and night motion of the sun and stars, and constellations in the sky
- Make connections between their lives to the cultures around the world
- Understand the importance of community and neighborhood

Magic Sky (Pre-K & K; ages 4–6)

Students will watch a beautiful sunset, explore the stars, make friends with the constellations and then meet Mr. Moon, who shows them his phases and craters.

Magic Sky enables students to:

- Analyze the role of the moon and its impact on Earth
- Assess the relationship between the sun and stars to day and night
- Compare constellations in the sky

The Moon (Grades K–2) NEW!

The Moon incorporates live interactive teaching with a planetarium program that has been designed to enrich discussion and interaction. Join a young boy as he discovers the wonders of the Moon.

The Moon introduces students to:

- Analyze the energy emitted from the Sun
- Observe sunspots on the surface of the sun and aurorae on Earth
- Discover the cultural importance of the Sun throughout the world

The Little Star That Could (Grades K–2)

A lonely little star embarks on a journey through the galaxy. Along the way he meets different stars, the Milky Way and is introduced to the planets.

Little Star That Could develops student skills as they:

- Identify the Sun and planets of our solar system
- Compare different types of stars, galaxies and star clusters

Secret of the Cardboard Rocket (Grades 1–3)

A brother and sister make a rocket ship out of a cardboard box and set off on a whirlwind tour of the planets – from sizzling hot Mercury to icy Pluto.

Secret of the Cardboard Rocket fosters student skills as they:

- Compare planets and dwarf planets
- Assess the role of the Sun in the solar system

The Zula Patrol – Under the Weather (Grades 1–4)

The heroes of the Zula Patrol are on a mission to collect samples of weather for scientist Multo’s research. Along the way, the team learns all about weather on Zula and on other planets.

The Zula Patrol – Under the Weather builds students understanding as they:

- Analyze different forms of weather
- Compare the weather on Jupiter, Venus, and Mars to Earth

The Zula Patrol 2 – Down to Earth (Grades 1–4)

Enhance your visit by scheduling the *Dynamic Earth* science exhibit tour; see page 8 & 14.

The Zula Patrol finds that someone has been travelling back to Earth’s prehistoric past to dump toxic trash! On their mission, the Zula Patrollers learn all about the formation and development of Earth, but must find and catch the culprit before it’s too late!

Zula Patrol 2 – Down to Earth enables students to:

- Assess the formation and evolution of Earth
- Examine the fossils, dinosaurs and other forms of life from Earth’s past
- Develop a plan for keeping Earth’s environment clean

SkyQuest (Grades 1–4)

Come along with a young astronomer on her personal quest to find a special place in the night sky. She shares her telescope views of the Moon, the planets and points out stars and constellations.

SkyQuest develops student’s knowledge as they:

- Examine the phases of the Moon
- Compare different types of stars
- Observe the constellations and planets visible in the night sky

Earth, Moon and Sun (Grades 3–5)

See page 10 for related Native American gallery tour.

Explore the relationship between the Earth, Moon and Sun. With the help of Coyote and Native American stories, students will learn about moon phases, eclipses, constellations and more!

Earth, Moon and Sun:

- Analyzes the relationship of the Sun and Moon
- Explains the eclipses and moon phases
- Details Native American traditions and folklore

Legends of the Night Sky–Orion (Grades 3–5)

See page 17 for related Ancient Greece gallery tour.

Take an imaginative look at the stories and legends of Orion, the great hunter of the winter sky. Greek mythology will never seem the same once you've seen this fun-filled production.

Legends of the Night Sky introduces students to:

- The constellations of Orion, Canis Major, and Canis Minor
- One of the many mythological stories connecting these constellations in the winter sky.

Legends of the Night Sky (Grades 3–5) NEW!

See page 10 for related Ancient Greece program.

Take an imaginative look at the stories and legends of Greek mythology. Choose between the tales of the hero Perseus and Princess Andromeda or the great hunter, Orion.

Legends of the Night Sky introduces students to:

- The constellations of Orion, Canis Major, and Canis Minor, or the constellations of Perseus and Andromeda
- One of the many mythological stories connecting these constellations in the night sky

Constellations Tonight (Grades 4–8)

Join our astronomers for a live interactive tour of the beautiful stars, constellations and planets that cross overhead nightly. The patterns found in the sky reveal the answers to some of the most important questions about the universe.

Constellations Tonight develops students knowledge as they:

- Examine the Sun, Moon, stars, and galaxies in our universe
- Observe constellations through the seasons of the year
- Are introduced to the theory of the Big Bang and cosmology

Force 5 (Grades 4–8)

Discover the awesome fury of tornadoes, hurricanes and thunderstorms. Join us for an incredible look at Earth's weather in all its many forms.

Force 5 fosters student learning as they:

- Compare hurricanes, tornadoes, and other weather patterns of Earth
- Identify coronal mass ejections and aurorae

Oceans in Space (Grades 4–8)

Search for extraterrestrials, learn how life on Earth began and what conditions are necessary to form and sustain it. Students are also introduced to the diversity of our home planet.

Oceans in Space develops the student's ability to:

- Assess the possibility of life on other worlds
- Identify the characteristics of Earth which have allowed for the evolution of life

Tales of the Maya Skies (Grades 5–12 and adults)

See page 8 & 13 for related Arts/Humanities gallery program.

Tales of the Maya Skies immerses you in Maya science, art and mythology, transporting you back into the world of the Maya. Learn about the Maya's accurate astronomical achievements and how astronomy connected them to the Universe.

Tales of the Maya Skies:

- Details Mayan mythology and culture
- Compares ancient Mayan constellations to those of today
- Analyzes the Mayan calendar, mathematics, and alignment of buildings to celestial events

Origins of Life (Grades 6–12 and adults)

Take your students on an inspirational journey through time and a celebration of life on Earth. Travel from the depths of the oceans to the far reaches of space to explore the Big Bang, the birth of stars, formation of solar systems and the first life on Earth.

Origins of Life develops student's knowledge as they:

- Observe the Big Bang and the beginnings of our universe
- Examine the formation of the solar system
- Assess the evolution of life on Earth

Extreme Planets (Grades 6–12 and adults)

Enhance your visit by scheduling the *Dynamic Earth* science exhibit tour; see page 8 & 14 .

Explore the extreme planets of our own solar system and beyond. Discover worlds with oceans of molten rock, where night never falls and where auroras perpetually dance across the starry sky. *Extreme Planets* fosters student learning as they:

- Identify the locations of extrasolar planets in our galaxy
- Compare extrasolar planets to those of our solar system
- Assess the possibility of life on other worlds

Black Holes (Grades 6–12 and adults)

They lurk in the Universe like cosmic dragons: unseen voids with the energy of a million suns. They can devour entire stars once in their grasp and nothing – not even light - can escape. Discover their true nature as you experience an intense voyage to a black hole!

Black Holes builds students understanding as they:

- Observe how black holes form in space
- Analyze the various parts of a black hole
- Examine Einstein's theory of relativity

Seven Wonders (Grades 6–12 and adults)

See page 13 for related Arts/Humanities gallery programs.

Earth was once home to seven amazing wonders, built by extraordinary civilizations in our distant past. Inspired by these mysteries, we voyage through time and space to discover seven wonders of our universe.

Seven Wonders enables students to:

- Examine the seven ancient wonders of Earth, their locations and the cultures who built them

- Observe other wonders of our universe, including the planets of our solar system, galaxies, and star clusters

Stars of the Pharaohs (Grades 6–12 and adults)

See page 10 for related Ancient Egypt gallery tour.

Travel through the temples, tombs and the skies of Egypt long past to discover the connection the ancient Egyptians felt with the stars and some of the most spectacular sites of the ancient world. *Stars of the Pharaohs*:

- Examines Egyptian culture and mythology
- Identifies ancient Egyptian constellations
- Tours ancient Egyptian temples and burial sites

Skywatchers of Africa (Grades 6–12 and adults)

From generation to generation, Africans have passed down their diverse beliefs and traditions featuring important connections with the heavens. Under the clear night skies of Africa, witness how its peoples used their astronomical observations to help grow food, tell time, find their way through harsh lands, and mold their lives.

Skywatchers of Africa:

- Examines African culture and mythology
- Identifies African constellations and beliefs about the sky

Heart of the Sun (Grades 6–12 and adults)

Experience our nearest star, the Sun, from a new perspective: This planetarium show takes you *inside* the Sun, in breathtaking high definition! "Heart of the Sun" reveals how the development of our whole cosmology has been influenced by our struggle to understand the Sun. This living star continues to challenge our imagination today.

Heart of the Sun fosters student skills as they:

- Analyze the energy emitted from the Sun
- Observe sunspots on the surface of the sun and aurorae on Earth
- Discover the cultural importance of the Sun throughout the world

Note: these programs can also be presented at your school in Skylab our portable Planetarium. See page 23 for details.

B. NEWARK MUSEUM IN THE CLASSROOM: OUTREACH PROGRAMS FOR STUDENTS

1. In-School Visits

General Information

Museum educators can come to your classroom with touchable objects and visual media to teach science, art, and astronomy. *The outreach programs are also available for after school programs and clubs.* These programs are designed to address the NJ Curriculum Standards and the Common Core Standards. A full listing of the standards addressed can be found on pages 28.

Group Sizes:

These are classroom programs, led by a Museum Educator—not for large assemblies—limited to 25 students. Programs range from 45 minutes–1 hour.

Availability:

Wednesdays, Thursdays and Fridays starting at 10 am

Outreach Fees:

For schools within 40 miles of the Museum—\$400 for two sessions, \$550 for four sessions of the same program. Fees vary for schools outside this region—call for details. Any additional time requested will be billed at \$100 per hour.

Payment:

Payment is due when the outreach program takes place. School Check or money order payable to “Newark Museum Association.” School purchase orders accepted for all school & teacher programs. Personal checks are not accepted.

Cancellations:

Cancellations or reduction in group size by 10 or more students within 2 weeks of a scheduled visit will be charged *50% of final cost of programs*. **Cancellation the day of trip will require FULL amount invoiced.**

How to Register

Advance registration is required for all outreach programs.

Call 973.596.6690

Fax 973.596.6614 (a registration form can be found at newarkmuseum.org/schoolinfo.html)

E-mail the form to: schoolgroupreservations@newarkmuseum.org

Hearing impaired can call: 973.596.6355 (TTY).

Program Descriptions

Art and Humanities

ArtSmart (Grades Pre-K–2)

Discover line, shape, color and texture in images from around the world. Students become artists as they participate in a group sculpture activity, story-telling, and create scratch artwork to take home.

The *ArtSmart* program fosters early learning skills that include:

- Artistic understanding as they identify the basic elements of art and principles of design in diverse types of artwork
- Creative thinking and new vocabulary understanding as they integrating color, form, lines, and shapes into their artwork
- Collaboration with peers and teachers to stimulate the creative process

My Community: Discovering What Makes a Community (Grades Pre-K–2) **10 am, 11 am and noon; 60 minutes, Limit: 20 students**

What are the elements that make communities special, and how do they differ around the world? Students will draw, write and read about communities found in their own backyard, the museum artworks, and in the collections from around the world! During *My Community*, students foster early learning skills including:

- Demonstrating an awareness of one's own culture and other cultures
- Contribute to group discussions with peers and teachers
- Develop vocabulary and higher-order thinking by viewing art works

Art and Science

On a Wing (Grades Pre-K–2)

Migrate through the Museum's teaching collection and examine birds, nests, feathers and eggs from many species. Learn how artists create birds by viewing selected museum works, listen to a bird tale, and creating a bird to take home.

On a Wing builds early learning skills as students:

- Compare the characteristics of birds
- Contribute to group discussion by sharing new ideas and experiences
- Develop creative art skills with the help of peers

Safari Trip (Grades Pre-K–2)

Embark on a group safari to hunt for different species of animals. Touch real animal artifacts, listen to an animal tale, and create an animal from modeling clay to take home.

Safari Trip develops early learning skills as students:

- Contribute to group discussions with the museum educator and peers while integrating personal accounts with newly gained facts about animals
- Connect the meaning of new words to their established vocabulary
- Develop artistic creativity and motor skills during the culminating exercise

Astronomy Planetarium Show

SKYLAB: A Portable Planetarium (Grades Pre-K–12)

The planetarium's astronomy experts set up an inflatable dome in a gym or multi-purpose room. Skylab features a high resolution digital projector. Programs listed below are presented live by our astronomers; all shows include a live tour of the sky. All of the *Planetarium programs described on page 16-20 can be presented at your school in SKYLAB, our portable Planetarium.*

Requirements:

- Site must provide a space (no smaller than 25 ft. x 25 ft. and 14 ft. high) with at least one working electrical outlet in the room – A school gymnasium normally fits this requirement. SKYLAB cannot be set up outdoors. Make sure that light fixtures and other items do not hang into the room.
- One teacher must remain inside the SKYLAB with his or her class at all times
- The portable planetarium is not recommended for children under the age of 4.
- Limit: 25-30 students per program, a maximum of 4 programs per day. (30 student maximum for Pre-K–K; 25 for all other grades)
- SKYLAB is not soundproof – no other activities should be scheduled nearby.

3. VIRTUAL FIELDTRIPS

Webinars

Connect to the museum via the internet as an educator streams a program. Each live 60-minute session with a Newark Museum educator includes a range of activities that you can adapt for students. Participants must have access to a computer with high-speed Internet access. A headset with built-in microphone, or a laptop computer with built-in microphone, is recommended for full participation. However, these features are not required to run a webinar. The Museum uses Elluminate to implement its webinars- you do not need special software, although you might need Java installed.

Webinar Outreach Topics:

Science:

- Dynamic Earth: Revealing Nature's Science Secrets

Social Studies, language Arts Literacy, Visual Arts

- American History through Artists' Eyes
- Ballantine House: Family Life in the Gilded Age
- Civil War @150
- Express Yourself: Tibetan Art
- Express Yourself: African Art
- Express Yourself: Native American Art
- Mysteries & Myths of Ancient Egypt, Greece & Rome

General Information

Fees:

\$125 per class period (discounts for multiple programs). Schools are directly responsible to the service provider for any line charges.

Cancellations:

Cancellations within 2 weeks of a scheduled videoconference may be charged a \$125 cancellation fee.

Curriculum Standards:

Videoconferencing and webinar programs address the New Jersey Core Curricular Standards and the Common Core Standards. *A listing of standards addressed for each program can be found beginning on page 28.*

How to Register:

For details or to register, send an e-mail to **schoolgroupreservations@newarkmuseum.org**

C. RESOURCES FOR EDUCATORS

On-line Resources:

iTunesU

The Museum has podcasts on iTunesU – digital images and audio. To access these resources for teaching, you need to download the iTunesU setup (it's free). Go to "iTunes store" and look for "iTunesU" and then click on "Beyond Campus" under "Education Providers". You will find the Museum's podcasts under "New Jersey's Newark Museum". They are all free-of-charge.

Thinkfinity Curriculum Guides

The Newark Museum is pleased to announce a special curriculum unit, Civil War @ 150, focusing on the many contributions made by individuals, especially African Americans and women, in observance of the 150th anniversary of the Civil War. New Jersey played a significant role during the Civil War, which will also be explored in this curriculum. Utilizing artworks and historical artifacts, the lessons infuse art, history, and language arts to create interdisciplinary curriculum. To access these lesson plans, visit the Newark Museum website at <http://community.thinkfinity.org/groups/civilwar>.

E-mail List

To make sure you receive up-to-date information about the Newark Museum's programs for schools and teachers, please send us your email address. We don't overload you with messages, but are selective in sending messages about upcoming special events and opportunities that will support your educational needs. Send your name and email address to:
teacherresources@newarkmuseum.org

Discounts

Attend any Educator's Evenings and receive a 15% discount on the required field trip fees. However, to be eligible for this discount you must register by *November 13, 2015* – the discount will not apply to those registering after this date.

Professional Development for Teachers

The Museum provides a range of professional development programs for teachers. All of these programs emphasize the significance of teaching with objects and the collections. Theory, practice, and teaching resources are included. Most programs are interdisciplinary, addressing the core curriculum standards established by the New Jersey Department of Education.

Professional development credit may be given at the discretion of a school or local school district. Graduate-level credit is available from Montclair State University for teachers enrolled in the *Curriculum & Teaching* summer program registered through the university.

How to Register:

Teachers and Curriculum Supervisors are invited to schedule professional development sessions at the Museum or in school districts. These sessions are also available using videoconferencing technology. For more information or to schedule a session, contact Director of School, Youth and Family Programs, 973.596.6603 or send an e-mail to: **teacherresources@newarkmuseum.org**

Check or money order payable to “Newark Museum Association”. School purchase orders accepted for all school & teacher programs.

Topics and schedules are by request and contingent upon current exhibitions and gallery availability. There is a minimum of ten teachers per session, with 25 maximum

Fees:

2 1/2 hours: \$30 per teacher.(longer sessions available upon request)

\$10 material fee/per teacher for science sessions at your school.

Box lunches for sessions at the Museum are available for advance purchase from the museum café.

Professional Development Topics:

Social Studies, Language Arts Literacy, Visual Art

- Early America: 18th & 19th century American Art & the 1784 Old Stone Schoolhouse
- American Art: 18th & 19th or 20th Century
- Civil War & Manifest Destiny
- Gilded Age & the 1885 Ballantine House
- Mysteries & Myths of Ancient Egypt, Greece & Rome
- Asian Cultures: China, Korea, Japan, India & Tibet
- African Art and Culture
- Native American Art and Culture
- Museum Treasures Across the Collections

Science

- Teaching Science @ Newark Museum
- Nature of Science
- Weather: Storms Everywhere
- Methods of Scientific Investigation

- Inquiry Science: Hands-on Overview
- Interdisciplinary Curriculum Development
- Science for Special Needs Students
- Early Childhood Science
- Science Sleuths: Crime Scene Science
- Astronomy 101

D. CURRICULUM STANDARDS ADDRESSED

African Adventure (Grades Pre-K–2)

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.P.B.1-2, 6.1.P.D.3-4, 6.2.8.A.4.a-c, 6.2.8.B.4.a-c
Language Arts Literacy (Common Core) 3.3.3 A, B, C; 3.3.5 A, B; 3.3.7 A, B; 3.3.8 A,B
Visual Arts 1.1.2.A.3, 1.1.2.B.3-4, 1.1.2.C.3, 1.2.2.A.1-2, 1.3.P.A.1-6, 1.3.2.A.2, 1.3.P.B.1-6, 1.3.2.B.1-3, 1.3.P.C.6, 1.4.P.A.1-7, 1.4.2.A.1-4, 1.4.2.B.1-3

ArtSmart (Grades Pre-K–2)

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.P.A.1, 6.1.P.D.3
Language Arts Literacy (Common Core) 3.3.3 A, B, C; 3.3.5 A, B; 3.3.7 A, B; 3.3.8 A,B
Visual Arts 1.1.2.D.1-2, 1.3.P.D.1-6, 1.3.2.D.1-4, 1.4.P.A.1-4, 1.4.2.B.1-3

Asian Adventure (Grades Pre-K–2)

Related NJ Core Curriculum Content Standards:

Social Studies 1.2 A., 6.1.4 A, 6.1.8A
Language Arts Literacy (Common Core) 3.3.3 A, B, C; 3.3.5 A, B; 3.3.7 A, B; 3.3.8 A,B
Visual Arts 1.1.2.D.1-2, 1.3.P.D.1-6, 1.3.2.D.1-4, 1.4.P.A.1-4, 1.4.2.B.1-3

Ballantine House: Family Life in The Gilded Age (Grades 9–12)

Common Core: English Language Arts

SL.9-10.1; SL.9-10.6; SL.11-12.1; SL.11-12.6
L.9-10.6; L.11-12.6

Related NJ Core Curriculum Standards:

Social Studies 6.1.12.A.5.a-b, 6.1.12.B.5.b, 6.1.12.C.5.c, 6.1.12.D.5.d, 6.1.12.D.6.a
Visual Arts 1.4.12.A.1-4, 1.4.8.B.3, 1.4.12.B.1

Ballantine House Mystery: “Who Done It?”(Grades 3–5)

Common Core: English Language Arts

SL.3.1-4; SL.3.6; SL.4.1-4; SL.6; SL.5.1-3; SL.5.6
L.3.1; L.3.3-4; L.3.6; L.4.1; L.4.3; L.4.4; L.4.6; L.5.1; L.5.3; L.5.6

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.4. D.13-20, 6.3.4.A.1-3
Visual Arts 1.4.5.A.1-2, 1.4.5.B.1-3

Building Bridges: Exploring Communities around the World (Grades 3–5)

Common Core Standards: English Language Arts:

SL.3.1-4.6; SL.4.1-4.6; SL.5.1-3.6;
L.3.1; L.3.3; L.3.6; L.4.1; L.4.3; L.4.6; L.5.1; L.5.3; L.5.6

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.4.D.1-3, 6.1.4.D.10-13, 6.1.8.A.1.a, 6.1.8.B.1.a-b, 6.1.8.C.1.a-b, 6.1.8.D.1.a-c, 6.1.8.D.3.e-f
Visual Arts 1.1.2.D.1-2, 1.1.5.D.1-2, 1.2.2.A.2, 1.2.5.A.1-2, 1.3.2.D.1-5, 1.3.5.D.2, 1.3.5.D.4, 1.4.5.A.2-3

Civil War @ 150 (Grades 4–8 and 9–12)

Common Core: English Language Arts

W.4.3-4; W.4.10; W.5.3-4; W.5.10; W.6.3-4; W.6.10; W.7.3-4; W.7.10; W.8.3-4; W.8.10; W.9-10.3-4; W.9-10.10; W.11-12.3-4; W.11-12.10

SL.4.1-3; SL.4.6; SL.5.1-3; SL.5.6; SL.6.1-3; SL.6.6; SL.7.1; SL.7.6; SL.8.1; SL.8.6; SL.9-10.1; SL.9-10.6; SL.11-12.1; SL.11-12.6

L.4.1; L.4.3; L.4.6; L.5.1; L.5.3; L.5.6; L.6.1; L.6.3; L.6.6; L.7.1; L.7.3; L.7.6; L.8.1; L.8.3; L.8.6; L.9-10.1; L.9-10.6; L.11-12.1; L.11-12.6

WHST.6-8.10; WHST.9-10.10; WHST.11-12.10

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.4.D.4-5, 6.1.4.D.8, 6.1.4.D.12-15, 6.1.4. D.17-20, 6.1.8.A.2.a-c, 6.1.8.D.2.a-b, 6.1.12.C.4.c, 6.1.12.A.6.a, 6.1.12.B.6.b, 6.1.12.C.6.c, 6.1.12.D.6.a-b, 6.1.8.A.5.a-b, 6.1.8.B.5.a, 6.1.8.C.5.a-b, 6.1.8.D.5.a-d, 6.1.12.A.9.a, 6.1.12.B.9.a, 6.1.12.C.9.a-d, 6.1.12.D.9.a-b

Visual Arts 1.3.5.D.2, 1.3.5.D.4, 1.4.5.A.2-3, 1.3.8.D.3, 1.3.8.D.5, 1.4.12.A.1-4, 1.4.8.B.3, 1.4.12.B.1

*** (with science lab): Science 5.1.4.A.2, 5.1.8.A.1, 5.1.8.A.3, 5.1.4.B.1, 5.1.4.B.3, 5.1.4.B.4, 5.3.4.A.1, 5.3.4.A.2, 5.3.4.A.3, 5.3.8.A.1, 5.3.6.C.2, 5.3.12.C.1, 5.3.12.C.2

Early America (Grades 3–5)

Common Core: English Language Arts

RI.3.7; RI.4.7;

W.3.3; W.3.10; W.4.3; W.4.10; W.5.3; W.5.10

SL.3.1-4; SL.3.6; SL.4.1-4; SL.4.6; SL.5.1-4; SL.5.6

L.3.1; L.3.3-4; L.3.6; L.4.1; L.4.3-4; L.4.6; L.5.1; L.5.3-4; L.5.6

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.4.D.4-5, 6.1.4.D.8, 6.1.4.D.12-15, 6.1.4. D.17-20, 6.1.8.A.2.a-c, 6.1.8.D.2.a-b
Visual Arts 1.1.2.D.1-2, 1.1.5.D.1-2, 1.2.2.A.2, 1.2.5.A.1-2, 1.3.2.D.1-5, 1.3.5.D.2, 1.3.5.D.4,
1.4.5.A.2-3

Express Yourself: Exploring the World through Art (Grades 3–12)

Common Core Standards: English Language Arts:

W.3.1-4;10; W.4.1-4;10; W.5.2-4;10; W.6.3-4;10; W.7.2-3;10; W.8.2-3;10
SL.3.1-4; SL.4.1-4; SL.5.1-4; SL.6.1-4; SL.7.1-4; SL.8.1-4; SL.9-10.1-4; SL.11-12.1-4
L.3.1-3,5-6; L.4.1-3,5-6; L.5.1-3,5-6; L.6.1-3,5-6; L.7.1-6; L.8.1-6
WHST.6-8.4; WHST.6-8.2; WHST.9-10.2; WHST.9-10.4; WHST.11-12.2; WHST.11-12.4

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.4.D.1-20, 6.1.8.A.2.a-c, 6.1.8.C.2.a, 6.1.12.B.2.a,
6.1.12.D.2.e, 6.1.12.D.3.e, 6.1.12.C.8.b, 6.2.8.B.4.a-f, 6.2.12.D.5.a-e
Visual Arts 1.4.5.A.1-3, 1.4.8.A.4, 1.4.5.B.4-5, 1.4.8.B.1, 1.4.12.B.1-3

Globe Trackers (Grades 3–8)

Common Core Standards: English Language Arts:

W.3.2-3; W.4.2-3; W.5.2-3; W.6.3; W.7.3; W.8.3
SL.3.1-4; SL.4.1-4; SL.5.1-4; SL.6.1-3; SL.7.1-3; SL.8.1-3
L.3.1; L.3.4; L.3.6; L.4.3-4; L.5.1; L.5.4; L.6-8.1

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.4.A.15-16, 6.1.4.B.1-3, 6.1.4. D.13,
6.1.4.D.19-20, 6.1.8.A.1.a, 6.2.8.D.1.a-c, 6.2.8.A.3.a-e,
6.2.8.C.3.a-c, 6.2.8.D.3.a-f, 6.2.8.B.4.a-f, 6.2.12.B.6.a
Visual Arts 1.4.5.A.1-3, 1.4.5.B.4-5, 1.4.8.A.4, 1.4.8.B.

My Community: Discovering What Makes a Community (Grades Pre-K–2)

Related NJ Early Learning Standards:

Social Studies 6.1.P.A.1-3
Visual Arts 1.2.2.A.1, 1.3.P.D.1-6, 1.3.2.D.1, 1.4.P.A.1-7, 1.4.2.A.2-4, 1.4.2.B.2
Science 5.1.P.A.1, 5.1.P.B.1-3, 5.1.P.C.1, 5.1.P.D.1, 5.3.P.A.1-2, 5.3.2.A.1, 5.3.P.B.1, 5.3.2.B.1-2, 5.3.P.C.1-3

***Mysteries & Myths of the Ancient World (select Egypt or Greece & Rome)*
(Grades 3–5)**

Common Core: English Language Arts

W.3.10; W.4.10; W.5.10; W.6.10; W.7.10; W.8.10
SL.3.1-4; SL.3.6; SL.4.1-4; SL.4.6; SL.5.1-4; SL.1-6; SL.6.1-3; SL.6.6; SL.7.1-3; SL.7.6; SL.8.1-3; SL.8-6

Related NJ Core Curriculum Content Standards:

Social Studies 6.2.8.A.2.a-c, 6.2.8.B.2.a-b, 6.2.8.C.2.a, 6.2.8.D.2.a-d
Visual Arts 1.1.2.D.1-2, 1.1.5.D.1-2, 1.2.2.A.2, 1.2.5.A.1-2, 1.3.2.D.1-5, 1.3.5.D.2, 1.3.5.D.4,
1.4.5.A.2-3

Native American Adventure (Grades Pre-K–2)

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.P.D.1-3, 6.1.4.D.1-20
Language Arts Literacy (Common Core) 3.3.3 A, B, C; 3.3.5 A, B; 3.3.7 A, B; 3.3.8 A,B
Visual Arts 1.1.2.D.1-2, 1.3.P.D.1-6, 1.3.2.D.1-4, 1.4.P.A.1-4, 1.4.2.B.1-3

***Native American Journey: Eastern Woodlands, Plains & the South West*
(Grades 3–5)**

Common Core: English Language Arts

SL.3.1-4,6; SL.4.1-4,6; SL.5.1-3,6;
L.3.1; L.3.3; L.3.6; L.4.1; L.4.3; L.4.6; L.5.1; L.5.3; L.5.6

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.4.D.1-3, 6.1.4.D.10-13, 6.1.8.A.1.a, 6.1.8.B.1.a-b, 6.1.8.C.1.a-b, 6.1.8.D.1.a-c, 6.1.8.D.3.e-f
Visual Arts 1.1.2.D.1-2, 1.1.5.D.1-2, 1.2.2.A.2, 1.2.5.A.1-2, 1.3.2.D.1-5, 1.3.5.D.2, 1.3.5.D.4,
1.4.5.A.2-3

On a Wing (Grades Pre-K–2)

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.P.A.1-3
Language Arts Literacy (Common Core) 3.3.3 A, B, C; 3.3.5 A, B; 3.3.7 A, B; 3.3.8 A,B
Visual Arts 1.2.2.A.1, 1.3.P.D.1-6, 1.3.2.D.1, 1.4.P.A.1-7, 1.4.2.A.2-4, 1.4.2.B.2
Science 5.1.P.A.1, 5.1.P.B.1-3, 5.1.P.C.1, 5.1.P.D.1, 5.3.P.A.1-2, 5.3.2.A.1, 5.3.P.B.1, 5.3.2.B.1-2, 5.3.P.C.1-3

Safari Trip (Grades Pre-K–2)

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.P.A.1-3
Language Arts Literacy (Common Core) 3.3.3 A, B, C; 3.3.5 A, B; 3.3.7 A, B; 3.3.8 A,B
Visual Arts 1.2.2.A.1, 1.3.P.D.1-6, 1.3.2.D.1, 1.4.P.A.1-7, 1.4.2.A.2-4, 1.4.2.B.2
Science 5.1.P.A.1, 5.1.P.B.1-3, 5.1.P.C.1, 5.1.P.D.1, 5.3.P.A.1-2, 5.3.2.A.1, 5.3.P.B.1, 5.3.2.B.1-2, 5.3.P.C.1-3

Water, Water Everywhere (Grades 3–8)

Common Core Standards: English Language Arts:

SL.3.1-3; SL.3.6; SL.4.1-3; SL.4.6; SL.5.1-3; SL.5.6; SL.6.6; SL.7.6; SL.8.6
L.3.3; L.3.6; L.4.3; L.4.6; L.5.6; L.6.6; L.7.6; L.8.6

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.4.B.4-9, 6.1.8.A.4.b
Language Arts Literacy (Common Core) 3.3.3 A, B, C; 3.3.5 A, B; 3.3.7 A, B; 3.3.8 A,B
Visual Arts 1.1.2.D.1-2, 1.1.5.D.1-2, 1.2.2.A.2, 1.2.5.A.1-2, 1.3.2.D.1-5, 1.3.5.D.2, 1.3.5.D.4,
1.4.5.A.2-3, 1.3.8.D.3, 1.3.8.D.5
Science 5.1.4.A.1-3, 5.1.4.B.1-4, 5.1.8.A.1-3, 5.1.8.B.4, 5.1.4.C.1-3, 5.1.8.C.1-3, 5.1.4.D.1-3, 5.1.8.D.1-3, 5.2.4.A.2, 5.4.8.C.3,
5.4.4.G.3, 5.4.8.G.1, 5.2.6.A.1

Western Expansion (Grades 6–12)

Common Core: English Language Arts

W.6.3-4; W.6.10; W.7.3-4; W.7.10; W.8.3-4; W.8.10; W.9-10.3-4; W.9-10.10; W.11-12.3-4; W.11-12.10
SL.6.1-3; SL.6.6; SL.7.1; SL.7.6; SL.8.1; SL.8.6; SL.9-10.1; SL.9-10.6; SL.11-12.1; SL.11-12.6
L.6.1; L.6.3; L.6.6; L.7.1; L.7.3; L.7.6; L.8.1; L.8.3; L.8.6; L.9-10.1; L.9-10.6; L.11-12.1; L.11-12.6
WHST.6-8.10; WHST.9-10.10; WHST.11-12.10

Related NJ Core Curriculum Content Standards:

Social Studies 6.1.8.A.4.b, 6.1.8.B.4.a-b, 6.1.8.C.4.a-c, 6.1.8.D.4.a-c, 6.1.12.A.3.a-i, 6.1.12.B.3.a, 6.1.12.C.3.a-b, 6.1.12.D.3.a-e
Visual Arts 1.3.8.D.3, 1.3.8.D.5, 1.3.12.D.2, 1.4.8.A.1-7, 1.4.12.A.1-4, 1.4.8.B.3, 1.4.12.B.1

Planetarium Shows

NJ Core Curriculum Standards:

One World, One Sky

Science:5.1.P.A, 5.1.P.B, 5.1.P.C, 5.4.2.A, 5.4.4.A

Magic Sky

Science:5.1.P.A, 5.1.P.B, 5.1.P.C, 5.4.2.A, 5.4.4.A

The Little Star That Could

Science:5.1.4.A, 5.1.4.B, 5.1.8.C, 5.4.4.A, 5.4.6.A, 5.4.12.A

Secret of the Cardboard Rocket

Science:5.1.4.A, 5.4.4.A, 5.4.4.B, 5.4.6.A, 5.4.8.A

The Zula Patrol – Under the Weather

Science:5.1.4.A, 5.1.4.B, 5.4.4.A, 5.4.4.E, 5.4.4.F, 5.4.4.G, 5.4.6.A,

The Zula Patrol 2 – Down to Earth

Science:5.1.4.A, 5.4.4.B, 5.4.6.B, 5.4.8.B

SkyQuest

Science:5.1.4.A, 5.1.4.B, 5.2.4.A, 5.4.4.A, 5.4.6.A

Earth, Moon and Sun

Science:5.1.4.A, 5.2.2.C, 5.2.4.C, 5.2.4.E, 5.4.2.A, 5.4.4.A

Legends of the Night Sky - Orion

Science:5.4.2.A, 5.4.4.A; Social Studies: 6.2.8.C, 6.2.8.D

Constellations Tonight

Science:5.1.8.C, 5.4.2.A, 5.4.4.A, 5.4.6.A, 5.4.8.A, 5.4.12.A

Force 5

Science:5.4.4.F, 5.4.4.G, 5.4.6.E, 5.4.6.F, 5.4.8.F, 5.4.8.G, 5.4.12.F

Oceans in Space

Science:5.1.8.A, 5.1.12.A, 5.3.6.B, 5.3.8.B, 5.4.6.A, 5.4.8.A

Tales of the Maya Skies

Science: 5.4.6.A, 5.4.8.A, 5.4.12.A; Social Studies: 6.2.8.B; Visual Arts: 1.2.8.A

Origins of Life

Science:5.1.8.A, 5.1.12.A, 5.3.6.B, 5.3.8.B, 5.4.6.A

Extreme Planets

Science:5.1.8.A, 5.1.12.A, 5.3.6.B, 5.3.8.B, 5.4.6.A, 5.4.8.A

Black Holes

Science:5.2.12.D, 5.4.12.A

Seven Wonders

Science:5.4.12.A; Social Studies: 6.2.8.C, 6.2.8.D; Visual Arts: 1.2.8.A

Stars of the Pharaohs

Science: 5.4.4.A, 5.4.6.A, 5.4.8.A, 5.4.12.A; Social Studies: 6.2.8.C, 6.2.8.D; Visual Arts: 1.2.8.A

Skywatchers of Africa

Science: 5.4.4.A, 5.4.6.A, 5.4.8.A, 5.4.12.A; Social Studies 6.2.8.B, 6.2.8.C ; Visual Arts 1.2.2.A, 1.2.5.A, 1.2.8.A

Heart of the Sun

Science: 5.1.4.B, 5.1.8.B, 5.1.12.C, 5.2.8.C, 5.2.8.D; Social Studies: 6.2.8.B, 6.2.8.D; Visual Arts: 1.2.8.A

E. Directions to the Newark Museum

By car or bus:

A system of road signs leads directly to The Newark Museum. From the NJ Turnpike, take Exit 15W to 280 West. From the Garden State Parkway and Routes 24, 78 and 280, take the Newark exit marked **Downtown/Arts**. Once in the Downtown/Arts district, follow the purple signs directly to the Museum.

Parking:

Buses may drop off school groups in the driveway in front of the Museum's South Wing entrance before parking. Limited FREE bus parking is available on Washington Street. Vans and cars can proceed to the Edison Park Fast lot adjacent to the Museum - buses only have limited parking in front of museum. Van/car parking is on a "First come First serve" basis. Vans (\$15, cars \$7). Fees must be paid in cash to the parking lot attendant; **do not include parking fees in check payments for groups**. The parking lot is operated independently of the Museum. Fees are subject to change.

By public transportation:

NJ Transit trains and buses, as well as PATH trains, stop at Newark's Penn Station.

Trains also stop at Broad Street Station. Newark LightRail stops at Washington Park across from the Museum.

Directions and map are also available at NewarkMuseum.org/directions.
49 Washington Street in Newark's Downtown/Arts District

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973.596.6550 general info

973.596.6355 TTY

973.596.6614 fax

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