

Educator's Guide

2011 through 2012

Curriculum
Made Fun!



Cincinnati
Museum
Center

cincymuseum.org

The Region's Best Field Trip Value!

Where else can you find special exhibitions, three amazing museums, a five-story domed OMNIMAX® Theater, the Cincinnati Historical Society Library and more than 100 curriculum-based programs all housed in a National Historic Landmark? Only Cincinnati Museum Center! Combination packages maximize your educational opportunities during your visit and every visit will meet your curriculum needs at very reasonable pricing.

Quick Visit

Any Museum	\$5.50
Single OMNIMAX®	\$4.50
Single Theater Program	\$6.00
Special Exhibit	Please see website for pricing

Combination Packages (2 hours or more) & Enhanced Student Learning

All Museums Pass	\$7.50
Museum & OMNIMAX®	\$8.00
Theater Program Plus Museum	\$11.50

Learning Labs Under 30 students w/museum admission

Early Childhood (Pre-Kindergarten)	\$85 per class
Elementary and Above	\$125 per class

Learning Labs 31 to 60 students w/museum admission

Early Childhood (Pre-Kindergarten)	\$170
Elementary and Above	\$250

LITE Lab STEM Experience

Under 30 Students	\$140 per class
Over 30 Students	\$185 per class

Programs on Wheels (maximum 30 students)

Early Childhood (Pre-Kindergarten)	
Single Program	\$130
Second Program	\$120*
Additional Program	\$110*

Kindergarten through Grade 9	
Single Program	\$145
Second Program	\$130*
Additional Program	\$120*

*Same program, same day, same room, with less than 1 hour between.

Also available combined with any other experience, *Holiday Junction Featuring the Duke Energy Holiday Trains* opens November 5, 2011 and *A Day in Pompeii* opens March 2, 2012.

Field Trip Information

Making Your Reservation

Call (513) 287-7021 a minimum of two weeks before your desired visit date to schedule your group. The sooner you call, the more likely we can accommodate your group for all the programs you desire on the dates that work best for you!

Office Hours are Monday through Friday, 8:30 a.m. - 5:00 p.m.
Questions? Call (513) 287-7021 or schools@cincymuseum.org

Pre-Reservation Check List

Please complete prior to making your field trip reservation.

_____ School and Teacher information

_____ School Address

_____ School/Teacher phone number

_____ Teacher E-mail

_____ Date of visit

_____ Back-up date (s)

_____ Number of students

_____ Grade Level (s)

_____ Number of adults
(including teachers & bus drivers)

_____ Time of arrival

_____ Time of departure

What do we want to do?

_____ Quick Visit

_____ Combination Visit

_____ Special Exhibit

_____ Other Program

Be sure to schedule a required 30 minute time slot for lunch.

Bring bag lunches _____

Purchase lunch at café _____

Have I arranged reliable transportation? _____

Have I arranged for payment through my school administration? _____

Do we need any special accommodations? _____

Preparing for Your Visit

Prior to your visit, make sure you have received your confirmation letter that includes your check-in slips and important visit information by filling out the Day of Visit Checklist below. Also be sure to pre-arrange a method of payment. To make it easier, if your group is 50 or larger and you are not planning to pack lunch, we strongly recommend you pre-order through our food service. An order form with items, prices and instructions is located on our Website and included with your confirmation letter.

Day of Visit Checklist

yes no

- Do I have my confirmation email?
- Do I have my exact count of students and adults?
- Is there a change in student numbers that affects my combo package?
- Have I thoroughly read over my confirmation letter, understand the procedures and relayed those policies to all my chaperones?
- Have I completely filled out the check-in slip attached to my confirmation letter?
- Do I have our payment?

Payment is due upon arrival. One method of payment - Credit Card, Check, Cash or P.O. - is accepted.

Arriving at Museum Center

Arrive thirty minutes prior to scheduled event.

Please have bus pull up to doors.

Contact teacher takes check-in slip and payment to box office.

After check-in, please have students depart bus and pass out wristbands.

Proceed to first scheduled event and enjoy!

Cancellations

If you need to cancel, please call our office 48 hours (two business days) in advance to cancel without penalty. Cancellations within 48 hours may be subject to a 50%-of-total-reservation fee, and not showing up for your scheduled visit may be subject to a 100%-of-total-reservation fee. Due to extensive outside costs, Large Capacity Learning Labs require cancellations two weeks in advance without penalty. For cancellations due to inclement weather or emergency school closings, please call (513) 287-7021 as soon as possible prior to your visit date and time to leave a cancellation message without penalty.

Parking

Buses park free. Visitors arriving by car pay \$6 per vehicle, cash only.

Additional Information

Sign Up For Educators eNews

Keep up to date on available school programs and professional development by subscribing to our Educators eNews. To sign up visit www.cincymuseum.org, click on "eNews Sign-up" and select your interests.

As an eNews subscriber, you'll be among the first to learn about events like our Teacher Nights, where you can preview new exhibits and films for a small fee, get access to educator guides and pre and post-visit material.

Teachers can get free admission to preview museums and films by presenting a note on school letterhead, signed by your principal or supervisor, at the box office.

Educator Membership Discounts

Cincinnati Museum Center shares your mission to educate. To show appreciation, educators receive a \$20 discount on Membership. Enrich your family life and the lives of your students. Full details and required discount form at cincymuseum.org/membership.

Acknowledgements

Cincinnati Museum Center gratefully acknowledges:

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technologies and sustainability.

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The Woodward Trust
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Additionally, Museum Center sincerely appreciates
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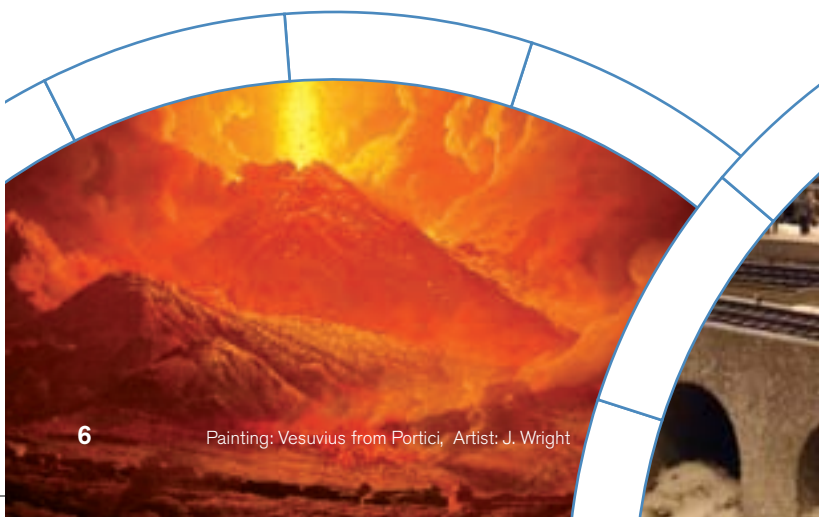
Special Exhibits



A DAY IN POMPEII

March 2, 2012 through August 12, 2012

Travel back in time to August 24, 79 A.D. with *A Day in Pompeii* and experience life in the shadow of Mount Vesuvius, in one of the Roman Empire's most opulent cities. This exhibition allows students to explore hundreds of artifacts that were left frozen in time, giving us a glimpse of the daily lives of those that lived – and died – in Pompeii. This exhibition is an immersive exploration that features topics in history, science, medicine and archaeology. Appropriate for grades 3-12.



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Painting: Vesuvius from Portici, Artist: J. Wright



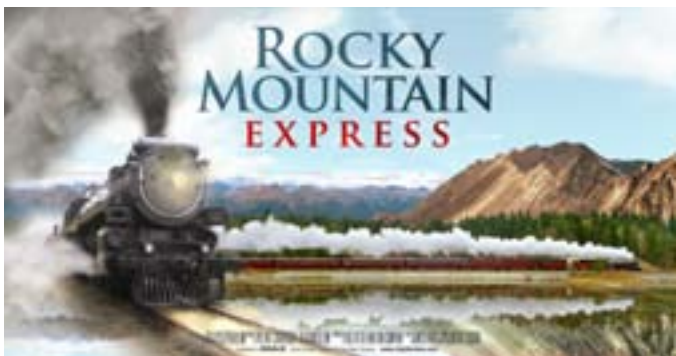
Celebrate **HOLIDAY**
at Cincinnati Museum Center featuring
the Duke Energy Holiday Trains.
TRADITIONS

November 5, 2011 through January 1, 2012

In the Cincinnati History Museum, students can explore engineering, transportation and locomotion through miniature displays featuring the Duke Energy Holiday Trains and other local model train clubs and collectors. Students can view the Duke Energy Holiday Trains in their new home, complete hands-on crafts, participate in activities and ride through a holiday scene on our riding train, the *Cincinnati*. Exhibit is appropriate for all grades and ages. To extend the learning experience add the *Rocky Mountain Express* OMNIMAX® film!



Robert D. Lindner Family



Rocky Mountain Express

October 14, 2011 through February 2012

Hop aboard and travel through the Canadian Rockies on a steam train adventure of a lifetime. Experience the human drama and epic engineering involved in building a railroad through some of the most demanding and breathtaking landscapes on Earth. Join passionate engineers as they work to re-ignite the fires of the Age of Steam and restore a champion locomotive. Together, they will pit their skills and an old engine against the perils of great mountain passes and rugged terrain. All aboard!



Classic Films Available to Educators

The following "classic" films are also available to school groups visiting Museum Center.

- _____ Forces of Nature
- _____ Hubble
- _____ Journey Into Amazing Caves
- _____ Lewis & Clark: Great Journey West
- _____ Tornado Alley
- _____ Under the Sea



Ring of Fire

March through August 2012

Ring of Fire takes you heartstoppingly close to the great circle of volcanoes and seismic activity that rings the Pacific Ocean. Discover the story of these immense volcanic forces and the half a billion people that coexist with them every day around the fiery boundary of the Pacific Rim. Feel the heat as you witness the birth of a new volcano in Chile and relive history with the rare and spectacular images of the infamous 1980 eruption of Mount Saint Helens. March with the inhabitants of Sakurajima, Japan as they participate in their annual evacuation drill and witness one of the frequent ash eruptions of this very active volcano.

Learning Labs

LITE Lab STEM Experience

The science lab where “You Do the Science!” Students will use creative thinking and problem-solving skills to solve hands-on, inquiry based science experiments and challenges in our new Learning Innovation Technology and Education Laboratory (LITE Lab). LITE Lab classes feature concepts of biology, chemistry, physics, sustainability and STEM. Each lab is tailored to grade-appropriate skills, and learning standards.

Eco-Life, Grades 4 to 10

Students will use math skills and provided materials to record data, predict outcomes and build solutions to eco-challenges throughout LITE Lab stations. From global climate to the water we drink or the fuel to heat our homes, students will investigate the impact of human behavior on the health of our environment and natural resources, socially and economically, on a local and global scale.

You are the Scientist! Grades 4 to 10

Students assume the role of a chemist, physicist or biologist to experience the critical and analytical thinking skills needed to complete experiments in this 45 minute laboratory class. Due to sharp instruments and advanced technology, teachers and chaperones will assist with experiments as needed.

Fantastic Physics, Grades 4 to 12

Students create dancing non-Newtonian fluid, explore nanoscience applications and measure distance, energy and force when launching their table top trebuchets. This is only the beginning of hands-on activities and challenges students can experience in this physics laboratory.



Science Learning Labs

60 minutes, maximum 30 students

All Learning Labs are aligned with content standards and benchmarks for the Ohio and National Academic Standards.

Available Monday through Friday at 9:30, 10:30 and 11:30 a.m. and 12:30 p.m.

Simple Machines at Work (and Play) Grades 1 - 3

After an introduction to simple machines, employ experimentation and creativity to analyze each machine station in the Duke Energy Children's Museum *Energy Zone*. Discover the function of each and which simple machines are used to accomplish jobs. Available Tuesday through Friday.

Cave Dwellers* Grades 1 - 4

Deepen your appreciation of the delicate ecosystem of a cave and the animals that call it home. Includes a guided experience in the Museum of Natural History & Science's replica limestone cave. The OMNIMAX® film, *Journey into Amazing Caves* makes a great addition to this selection.

*Can accommodate a larger group of 60 students. Please inquire.

Dinosaur Discovery Grades 1 - 5

Become a paleontologist and explore the size and bone structure of dinosaurs while using the tools of the trade and fossil replicas. This program includes a guided experience in the Museum of Natural History & Science's *Dino Hall*.

Be a "Rock" Star* Grades 3 - 6

Take on the role of a geologist and follow the rock cycle to learn how rocks are formed. Discover the different properties of rocks and categorize them based on a set of criteria.

*Can accommodate a larger group of 60 students. Please inquire.

STEM-ing it Up! Grades 4-8

The relationship between humans and the environment has changed over the past 300 years. Students will learn about how we have impacted the environment from Native Americans to the present, concluding with an exploration of modern technology and conservation methods.

This program includes a guided experience in the Museum of Natural History & Science's *Pathways to Change* exhibit.

Learning Labs

Forces of Nature Grades: 4 - 8

Hurricanes, tornadoes, volcanoes and earthquakes... Take a closer look at how these monster storms and earth shattering events form and how scientists study them. Explore key principles of meteorology and seismology. Examine technology that is helping scientists learn about how they form or how to prepare for their wrath. The OMNIMAX® film *Forces of Nature* makes a great addition to this selection.

**Can accommodate a larger group of 60 students but will require a time extension of 30 additional minutes and a \$200 fee.*

NEW! Solving the Seismic Puzzles of Pompeii

(available beginning March 1) Grades 4 - 8

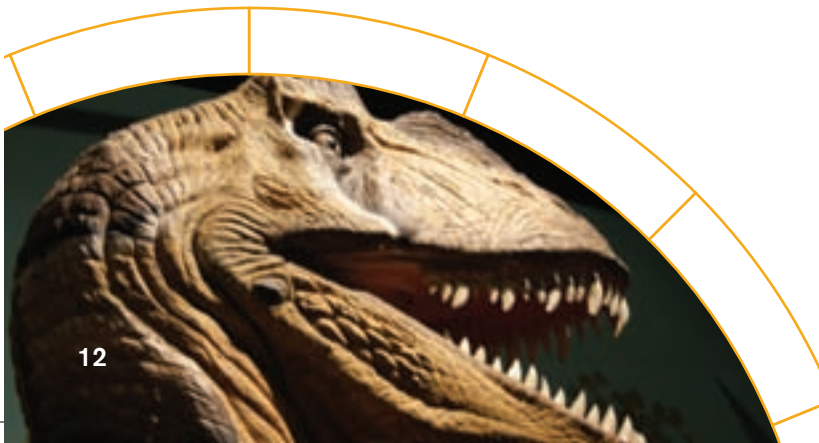
Volcanoes, earthquakes and a minor tsunami all played a role in the destruction and preservation of this fascinating city. Take an in-depth look at the seismic events that turned the ancient town of Pompeii into a world renowned archeological site and understand the history of Mt. Vesuvius to determine when to anticipate the next eruption. The OMNIMAX® film *Ring of Fire* makes a great addition to this selection.

Be a Space Ace Grades 5 - 8

Help scientists discover clues about the planets in our solar system. Through problem solving and hands-on experimentation the students will participate in activities that are out of this world!

Toying With Physics Grades 5 - 9

Explore physics through toy-based science activities. Students investigate the laws of motion with emphasis on potential and kinetic energy. Through scientific inquiry students will use skills of prediction, observation, explanation and summary.



Social Studies Learning Labs

60 minutes, maximum 30 students

All Learning Labs are aligned with content standards and benchmarks for the Ohio and National Academic Standards.

Available Monday through Friday at 9:30, 10:30 and 11:30 a.m. and 12:30 p.m.

Award Winning! Mind Your Money* Grades 1 - 3

Students review the value of money and are introduced to the concepts of earning, spending and saving. Students will play a board game that requires them to spend and save their allowance wisely. The choices they make will better prepare them for their own future monetary decisions.

**Can accommodate a larger group of 60 students.*

Welcome to My Home* Grades 1 - 3

Compare your homes and lives to those of children around the world. Explore cultural similarities related to school, clothing, family routines, names and leisure activities. This program includes a guided experience in the Duke Energy Children's Museum *Children Just Like Me* exhibit.

**Can accommodate a larger group of 60 students.*

Cincinnati in Motion Grades 1 - 4

Cincinnati has been a hub of transportation since before the first settlers arrived. From canoes to steamboats and trolleys to trains, the movement of people and products has been at the heart of the city. This program includes a guided experience through the Cincinnati History Museum's transportation related exhibits with an emphasis on the *Cincinnati in Motion* exhibit.

Native American Lifestyles* Grades 1 - 4

Take a look at some of southern Ohio's earliest inhabitants. What tools, natural resources and skills allowed them to survive? Students will perform the duties of an archaeologist and investigate artifacts to help identify past cultures.

**Can accommodate a larger group of 60 students.*

Life on the Ohio River Grades 3 - 5

Take a ride down the Ohio River and learn what life was like for Native Americans and early settlers. Explore how the river has affected, and been affected by changes in lifestyle and travel throughout history. Includes a guided experience in the Cincinnati History Museum's *Settlement to 1860s* galleries.

Learning Labs

Award Winning! Mind Your Money* Grades 4 - 8

Discover some of Cincinnati's early businesses and investigate how each earned, spent, saved and invested their money. Students will gain a basic understanding of how money works and how economics and math apply to our everyday lives. Includes a guided experience in the Cincinnati History Museum's *Public Landing*.

**Can accommodate a larger group of 60 students.*

Coming to America* Grades 3 - 8

The 19th century brought many people to Cincinnati's doorsteps from all around the world. What factors might influence an immigrant to leave the only home they have ever known and learn how did these groups impacted our local community? Identify the push and pull factors that made the U.S. the "land of opportunity" and the influence of these groups in Cincinnati's rich cultural history.

**Can accommodate a larger group of 60 students.*

Uncovering Egypt* Grades 4 - 8

Archaeology is a science that allows us to unlock the secrets of past civilizations. Participate in a hands-on demonstration of archaeological techniques as students explore a mock excavation site from Egypt and learn to identify a culture based on the artifacts discovered.

**Can accommodate a larger group of 60 students.*

NEW! On the Trail with Lewis and Clark* Grades 4 - 8

Take an imaginary trip with Lewis and Clark to explore President Jefferson's recent acquisition of the Louisiana Purchase for the U.S. Government. Find out how the purchase affected our country and discover the preparations and training necessary for your journey. Why were they going, what did they pack, what did they discover along the way? You will answer these questions and more as we head for adventure.

The OMNIMAX® film *Lewis & Clark: Great Journey West* makes a great addition to this selection.

**Can accommodate a larger group of 60 students.*

Early Childhood Learning Labs

45 minutes, maximum 25 students

All Learning Labs are aligned with content standards and benchmarks for the Ohio and National Academic Standards. Preschool and kindergarten Learning Labs are specifically developed for our youngest students. Introduce students to the museum community with hands-on programming that is age appropriate and loads of fun!

Available Tuesday through Friday at 9:30, 10:30 and 11:30 a.m. and 12:30 p.m.

Block by Block* Pre Kindergarten - Kindergarten

Learn to build. Build to learn! Use a variety of materials to construct, sort and classify while working cooperatively.

**Can accommodate a larger group of 50 students.*

Let's All Celebrate!* Pre Kindergarten - Grade 1

Children from all around the world love a celebration. Travel the globe to explore a variety of child-centered ceremonies.

**Can accommodate a larger group of 50 students.*

My Rainforest Adventure Pre Kindergarten - Grade 1

Take an imaginary tour of the canopy to discover a tropical rainforest and learn about animals and plants that live there.

This Little Dinosaur* Pre Kindergarten - Grade 1

Discover a story that is more than 65 million years in the making. This tale of exploration and discovery includes replica dinosaur fossils, footprints and other evidence. Available Monday through Friday.

**Can accommodate a larger group of 50 students.*

Will it Float? * Pre Kindergarten - Grade 1

Is water heavy or light? Does air have anything to do with buoyancy? Experiment with the basic principles of water as you test a variety of objects that either sink or float.

**Can accommodate a larger group of 50 students.*

NEW! Meet Stuffee Pre Kindergarten - Grade 1

Unzip Stuffee, Cincinnati Museum Center's very own anatomy doll! Students will get to help feed Stuffee and unzip him to identify a number of his organs and discuss their functions and how our body works. Available Monday through Friday.

Learning Labs

Theater Programs

Cincinnati 28 Grades 4 -12

February 6, 7, 8, 9, 10, 2012

Show times: Reservations are available at 10 a.m. and noon.
Program runs 50-60 minutes.

This hour-long interdisciplinary drama tells the true story of twenty-eight slaves that fled from a Virginia plantation and their adventurous escape through Cincinnati on the road to freedom. Through the dialogue of the professional cast, the audience learns the dangers awaiting a runaway slave, the life of a slave, the pain of separation from family and friends and the courageous roles of the conductors of the Underground Railroad.

Lewis and Clark Meet the Press Grades 3 - 12

May 2, 3, 4, 2012

Show times: Reservations start at the top of any hour between 9 a.m. and noon.

OMNIMAX[®] and Learning Lab run 1 hour in length independently or 2 hours for the package.

Suggested combination, Lewis and Clark & OMNIMAX[®]

Experience history first-hand in a theatrical blending of past and present as your students become "The Press" and have the opportunity to "interview" Lewis and Clark of the Corps of Discovery. Through two back-to-back press conferences, your students will learn what sparked the desire to set about on this famous expedition, the preparations that were made and what President Jefferson hoped would be discovered on a passage westward. This hour-long program shares the expectations, discoveries, mishaps and triumphs of these two great explorers.

This experience is paired with the 45-minute OMNIMAX[®] film, *Lewis & Clark: Great Journey West* where participants are surrounded by a five-story, 72-foot-diameter, domed screen making them feel as if they are part of the great expedition westward with Lewis and Clark.



Programs-on-Wheels

Programs-on-Wheels brings the excitement of the Cincinnati History Museum and the Museum of Natural History & Science directly to you! Choose from a broad array of educational and entertaining science, natural history and social studies programs.

Supporting Partner:  Time Warner Cable®

Science and Social Studies Programs for Young Children

Ages 3 - Kindergarten

45 minutes, maximum 25 students. Available Monday through Friday between 8:30 a.m. and 4:30 p.m.

**Same program, same day, same room, with less than 1 hour between.*

A Cultural Experience

Ages 3 - Kindergarten

(History, Sociology, Geography) Children use music, toys, colorful clothing and role playing to explore cultures from Peru, Japan and Mali.

3...2...1... Blast Off! *

Ages 4 - Kindergarten

(Earth Science, Space Science) Build the solar system in your classroom and leave Earth behind as young astronauts blast off with radio controlled space shuttles to explore what's beyond our own planet. View photographs and learn about gravity, asteroids, orbits and more. From the sun and the moon to the stars far beyond it will be a truly "space-ial" experience.

**Requires a large open area for the presentation.*

Coral: A Colorful Community *

Ages 4 - Kindergarten

(Earth Science, Life Science) Children learn what coral is, where it lives, what it eats and how it protects itself. Explore different types of real coral skeletons, experience how a coral polyp feels and view pictures of some of the creatures that live in a coral reef. Using beautiful puppets, everyone can participate in making a coral reef habitat come to life.

**Program can be adapted for children up to 3rd grade. Call for details.*

Dino Dig *

Ages 3 - Kindergarten

(Earth Science) Dig up dinosaur fossils and discover their owners' true identities! Learn about different kinds of dinosaurs, what they looked like, what they ate and how they protected themselves. A variety of activities allow you to growl, claw and walk like a dinosaur.

**Requires a large open area for the presentation.*

“Egg”-cellent Eggs Ages 3 - Kindergarten

(Life Science) Explore an egg-citing variety of birds' eggs and learn about their different shapes, sizes, colors and nests where they are found. Learn about whom else lays eggs and crack one open to find out what's inside! This program includes hands-on activities that are full of egg-citement!

From Backyard to Barnyard Ages 3 - Preschool

(Earth Science, Life Science) Using puppets, investigate a variety of animals that can live in either a backyard or barnyard habitat. Visit with a live animal friend who can be a city or country dweller. Investigate what this animal eats and how it finds food by echolocation.

How Does Your Garden Grow?* Ages 3 - Kindergarten

(Earth Science, Life Science) What does a plant look like? What does it need to grow? By the end of this program, little ones will know. After learning about the parts of a plant, the plant life cycle, and the difference between fruits and vegetables, spend some time digging in the dirt and plant your very own seed to take home.

**Requires a large open area for the presentation.*

Our Five Senses Ages 3 - Preschool

(Life Science) It takes a nose to know, or maybe hands, ears, eyes or a tongue! Little ones explore the magic of their senses through fun, hands-on activities. A live animal is a touchable finale to this sense-sational program.

Snug as a Bug Ages 3 - Kindergarten

(Life Science) Participants “build a bug” as they study insects. Learn about the life cycle of a caterpillar as it transforms into a butterfly. Play a game of hide and seek with a very hungry frog as we explore how insects protect themselves. Meet and touch some live insects then look at some incredible, mounted bugs from around the world.

Programs-on-Wheels

Tall Tails Ages 3 - Preschool

(Life Science) Wiggle, waggle, hop and prop as children learn about animal adaptations. Try on larger-than-life costumed tails and “become” that animal. Hear a Native American story about two unique local animals that have a tall tale to tell.

Wild About Animals Ages 3 - Kindergarten

(Earth Science, Life Science) From Africa to Antarctica, children become part of the wild animal kingdom. Safari through Africa, “viewing” zebras, lions and more through binoculars. Waddle like a penguin in the coldest place on Earth. Then, hop on over to a continent with some rather unusual down-under residents.

Wonders of Weather Ages 3 - Kindergarten

(Earth Science, Life Science) Explore weather phenomena with fun, hands-on activities. Investigate seasonal weather patterns. Complete the water cycle, make some snow, race clouds, have a hair-raising experience with lightning and take home jewelry with “magic” sun-sensing abilities!



Science And Social Studies Programs

60 minutes, designed for various ages, maximum 30 students. Available Monday through Friday between 8:30 a.m. and 4:30 p.m.

Science Programs

Digging for Dinosaurs* Grades 1 - 4

(Earth Science) Uncover fossils on a paleontological “dinosaur dig.” Discuss Cincinnati’s world-famous Ordovician fossils. Learn how fossils are formed and make a plaster cast of a fossil for the group to keep. Touchable fossils from dinosaurs such as *Allosaurus*, *Tyrannosaurus*, *Stegosaurus*, *Raptors* and many more make this program a junior paleontologist’s dream.

**Requires a large open area for the presentation.*

Incredible Insects Grades 1 - 5

(Life Science) Get up close and personal with the creatures that make up Earth’s largest population. Learn who is an insect and who is not, see the world through the eyes of a fly and learn some amazing facts about insect defense, including camouflage and mimicry. This program comes complete with live insects and some unbelievable mounted insects from across the globe.

The Reasons for the Seasons Grades 1 - 5

(Earth Science, Life Science, Space Science, Geography) Using globes, rotate and revolve your way to learn about the seasons and to understand why spring and summer are warmer times of the year and fall and winter are colder. Create the sounds of spring and explore the effects of camouflage with real animal mounts from Museum Center collections. Then, win a seasonal prize if you can identify which animal has visited by studying scat and tracks left behind.

Awesome Animal Adaptations Grades 1 - 8

(Life Science) Explore animal habitats and adaptations. Meet and touch live animals that may include a bat, snake, box turtle, tarantula and/or hissing cockroaches. Learn about and handle unique items such as baleen, pronghorn antelope fur, armadillo armor and more from Cincinnati Museum Center collections.

Programs-on-Wheels

Bats Grades 1 - 9

(Life Science) Walk like a bat! Fly like a bat! Meet a native Big Brown Bat. Explore echolocation, how it works and what it sounds like. Learn about these truly amazing yet misunderstood animals through a slide presentation, game, artifacts and more.

Your Heart, Your Blood, Your Health Grades 2 - 6

(Life Science) What an amazing machine the heart is! Learn about how the heart is packaged, the way it works, the way it sounds, to which system it belongs and what it pumps. Get “up close and personal” with capillaries, “run” a little race, test your food pyramid knowledge and share some giant microbes.

Experimenting with Physical Science Grades 3 - 6

(Physical Science) What shapes do bubbles take? Does sound vibrate? Explore bubbles, sound, electricity, magnets, motion, light, color, mirrors and optical illusions in this inquiry-based program. Create hypotheses, perform experiments, draw conclusions and share your discoveries.

Tour the Solar System Grades 3 - 6

(Earth Science, Space Science) Soar through the solar system with recent slide images from Mercury to Neptune and beyond. Touch real meteorites and rocks of the type found on our Moon. Create impact craters and observe the crushing effects of air pressure!

NEW! Fossils at Our Feet: Ancient Creatures of the Queen City* Grades 3 - 8

(Earth Science, Life Science) Investigate how land masses moved and shifted through time. Explore a timeline of major species evolution and extinction events. Learn about local ancient creatures, the habitat in which they lived and their adaptations. Program includes an Ordovician period diorama and fossil specimens from Museum Center collections.

** Program can accommodate adult audiences. Call for details.*



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Chemistry in Your Hands Grades 4 - 8

(Physical Science) Heat it up and cool it down! See and feel the evidence of physical versus chemical change. Watch your experiments change color as you create acids and bases. Learn chemistry basics and practice lab safety. Beware—the results you take home may be slimy!

Geology Rocks Grades 4 - 8

(Earth Science, Physical Science)

Be a geologist for the day! Learn all about rocks and minerals while viewing and handling impressive specimens from Cincinnati Museum Center collections. Test your knowledge of everyday uses of minerals. Then, examine, test and classify specimens to learn their true identities. This hands-on program is sure to provide a rocking time!

Taxonomic Detectives Grades 4 - 8

(Life Science) Classification isn't as mysterious as it sounds. Use clues given by animal eye placement and teeth type, along with a dichotomous key to identify real animal skulls and determine to which taxonomic order they belong. With some simple classification activities to get you started, it's a detective case you'll soon solve, right down to the species of each skull.

ABC: Arches, Bridges, and Construction Grades 5 - 8

(Physical Science) Working cooperatively in teams, build arches, a suspension bridge and a truss bridge you can actually crawl across. Learn what makes bridges work - anchors, beams and compression, just to name a few. Explore the concepts of live load, dead load and environmental stress.

Forensics: The Science of Crime* Grades 5 - 8

(Life Science, Physical Science) Analyze human skull replicas to determine gender and ethnicity of a fictional victim. Combining clues from the skull with crime scene evidence, participants are able identify a missing person and speculate as to the cause of death. **Program can be expanded to include human evolution. Call for details.*

NEW! Thinking Green?* Grades 5 - 8

(Earth Science, Life Science, Physical Science) Energy is all around us. We use it every day, but where does it come from? Review energy types, explore personal energy usage and contrast renewable and non-renewable sources of electricity. As a grand finale, use renewable energy kits to experiment with several types of clean energy before getting a chance to explore a roof that is green in more ways than one. **Recommended program length is 75 minutes.*

Programs-on-Wheels

Social Studies Programs

One World, Many Cultures Grades 1 - 4

(History, Sociology, Geography) Take a trip around the world, navigating your way with maps and travel buddies.

Use clothing, crafts, games, celebrations, music and photographs to explore other cultures from Africa, Asia, Australia and South and North America.

NEW! Impact of Inventions Grades 1 - 6

(History, Sociology, Economics) Ever wonder what life would be like without light bulbs, traffic lights or farmers' almanacs? Many inventors, such as Benjamin Banneker, Garrett Morgan, Eli Whitney, George Washington Carver and Patricia Bath, have changed our daily lives. Using a timeline, experiments, hands-on activities and role playing investigate the impact of their inventions and others, on the past, present and perhaps, the future.



Transportation Transformations Grades 3 - 6

(History, Geography) Learn how canals, streetcars and inclines impacted the growth of Cincinnati from the 1820s through the 1950s. Learn about a period folksong, role-play loading goods on a canal boat, "ride" one of Cincinnati's five inclines and view historical photographs of these forms of transportation.

When Two Worlds Met Grades 3 - 6

(History, Sociology) The North American fur trade brought together people from two different worlds. Exchange furs, coins and wampum for replica goods from a late 18th century trading post. Step into first person roles as the signers of the Treaty of Greenville to learn about the Battle of Fallen Timbers.

Business Beginnings Grades 3 - 8

(History, Economics) Investigate the beginnings of soap and candle making, meatpacking, furniture making and brewing in 19th-century Cincinnati. Working in small groups to review period business records, illustrations and historical artifacts, learn how productive resources were used in these industries and how they impacted production and consumption.

Economic terms such as opportunity cost, scarcity, profit and loss are used in this program.

Lewis and Clark Grades 3 - 8

(History, Sociology, Geography) From grizzly bears to prickly pears, use maps, historical artifacts, parched corn and primary source material to study the wildlife, unknown lands and people the Corps of Discovery encountered on the expedition that changed the course of history. Primary source material includes a Meriwether Lewis manuscript owned by Museum Center and replicas of the Jefferson Peace Medal.

Liberty on the Border Grades 3 - 8

(History, Sociology, Geography)

Through photographs, prints, maps, replicas and other period materials participants study territorial expansion, compromises, historical figures, economics, causes, course and effects of the Civil War. Hardtack, ammunition developed for this war and a haversack containing letters written during this time period helps to give participants a look into the soldier's way of life.



Lotions, Potions and Strange Notions Grades 3 - 8

(History, Sociology) Learn what 19th-century people once thought caused cholera then role-play what effects/symptoms this disease caused. Touch a "giant microbe" of *Vibrio cholerae* (Cholera) and investigate where we still have this disease today. Compare the names of illnesses used in the past with what they are called today. Explore old-fashioned home and herbal remedies then use mortars and pestles to roll herbal pills like those dispensed in 19th-century apothecaries.

The Underground Railroad: Its history, Its people, Its glory Grades 3 - 9

(History, Sociology) Look at the history of slavery and the Underground Railroad.

Using a timeline, pictures, slave shackles, photographs, navigational tools and true stories of actual historical figures, children re-create elements of this incredible journey. Through this program children will better understand the resourcefulness, courage and determination of freedom-seeking slaves as they are given a slave name and told that slave's story.



Walking City Grades 3 - 9

(History, Geography) Explore how geographic factors kept Cincinnatians confined to the downtown basin and why it remained a walking city longer than most. Use a period map, map key, advertisements and illustrations to perform a series of tasks that help you understand what life was like in 1863 Cincinnati. Miniature drawings of building facades and people combined with some little pigs help to make this a life-like experience.

Additional Offerings



Appalachian Culture Fest School's Day

Appropriate for grades 3-12

Friday, February 17, 2012. 10 a.m. to 2 p.m.

In this new program, students can have a deep cultural experience with internationally known artists from Appalachia. Students learn how traditional arts, storytelling and bluegrass music influenced Appalachian culture. This program fulfills Ohio, Kentucky and Indiana social studies content standards. To reserve a space for your class please call (513) 287-7021.

Overnights at Cincinnati Museum Center

Available October through May

Overnights at Cincinnati Museum Center provide the opportunity for your class to get an up close look at the Cincinnati History Museum or the Museum of Natural History & Science. With two themes to choose from, our Overnights are sure to please any group. Explore our limestone and ice caves during our Cave Overnight or wander Cincinnati's *Public Landing* and historic *Early Settlement* area during our Overnight at the Museum. Each Overnight includes snack, breakfast, an animal demonstration and a morning showing of an OMNIMAX® film. Minimum of 45 people for a private Overnight is required and the cost is \$28 per person, a \$250 deposit is required to make reservations for an overnight. Go to cincymuseum.org for more details.

School Bus Tour: Presented by Cincinnati Heritage Programs

Available for Grades 3-12

Monday through Friday; September through week before Thanksgiving and March through first week of June.

Want a different kind of museum experience? Make the city into your very own exhibit! Museum Center's Cincinnati Heritage Programs offers school bus tours of the city. Schools use their own bus and pick up the guide at Union Terminal. The two-hour route explores downtown, Mt. Adams, Over-the-Rhine and both sides of the Ohio riverfront. A two week advance reservation is required and should be made as early in the school year as possible to ensure date availability. \$40 per tour is due upon arrival. There is a limit of one bus tour per day with two buses, so reserve early!



Additional Offerings

Scouts at the Museum

Available September through May

Cincinnati Museum Center offers a wide range of badge programs for Webelo Cub Scouts, Brownies and Junior Girl Scouts during the school year. All programs include private demonstrations, discussions and exploration of the museum all day. Please see cincymuseum.org for more information.

Professional Development Opportunities for Teachers

Insights Lecture Series

Appropriate for educators and high school students. Insights Lectures feature local and national experts speaking on a variety of subjects chosen for their relevance and their ability to spark insight and dialogue. All lectures are held in Reakirt Auditorium and are free and open to the public. Teachers receive 2 CEU's for attending lectures. Please check our website for more information.

Learning Through Play

On March 3, Duke Energy Children's Museum will present the fourth annual Learning Through Play Conference. This unique, one-day conference will focus on how parents, educators and childcare professionals can use play as an effective tool in their interactions and education of young children. There will be a variety of sessions appropriate for parents and caregivers of children age 10 and under. The conference will feature four main elements: An information fair, open forums, adult-only sessions and family interactive sessions. Participants can choose from any of the forum and session program topics that are offered. Teachers can receive CEU's for attending conference sessions.



Fundamentals of Inquiry Workshop

Fundamentals of Inquiry Teacher Workshop will be available soon for educators interested in exploring the theory and practice of inquiry-based teaching and learning. This workshop illuminates the power of learning science content through inquiry and introduces strategies for providing inquiry experiences in the classroom. Dates for this workshop will be announced soon. Please go to cincymuseum.org/educators for further information.



Explore the Museums

Cincinnati History Museum

Invigorate social studies and history classes and enhance students' perception of history. Engaging and informative history is presented using primary sources, artifacts, artwork, realistic living history settings and costumed interpretive staff. Programs and exhibits at the Cincinnati History Museum illustrate how the history of this region connects to broad themes in American history.

Cincinnati in Motion

Explore Cincinnati's urban development via a model of Cincinnati, circa 1900 to the 1940s, complete with working trains, trolleys and inclines. Neighborhoods showcased include downtown, the West End, Mt. Adams, Price Hill, Over-the-Rhine and Northern Kentucky. This exhibit is the largest urban layout of its kind in the world.

Cincinnati Goes to War

Focus on life on the home front in Cincinnati during World War II. Students discover how local businesses and industries converted to wartime production, how civilians helped and coped with the war effort and ways citizens served their government.

Cincinnati: Settlement to 1860s

Explore area history from pre-European contact and the city's founding in the 1780s to its rise as a mid-19th century center of culture and commerce. Students can learn about the interactions between traders, settlers and Native Americans, and about Cincinnati as a center of education, religion, the arts and commerce. Highlights include a flatboat, 94-foot steamboat and re-creations of the buildings and streetscapes of the 1850s!

Forming a New World: Cincinnati's Machine Tool Industry 1850-1930

Our exhibit detailing the city's rise as the machine tool capital of the world and illustrating the role local machine tool companies played in the industrialization of America.



Duke Energy Children's Museum

Designed for children ages ten and younger, the museum is fully accessible to visitors of all abilities. If your group needs special accommodations, let us know when you make reservations so that we may assist you in making your visit or program as successful as possible.

Kids' Town

A dramatic role-play exhibit that includes grocery, post office, diner, veterinarian's office and other places to imagine and pretend. Shop for groceries, use a cash register and deliver mail, cook a meal, repair a car and operate a traffic light that hung over the streets of Cincinnati.

Water Works

Water Works provides hydraulic learning stations that demonstrate the roles played by water as a force of nature and source of energy. Make it rain, observe flood plains, control a river's flow and create and sail boats. Use the power of water to set machines in motion and use pipes to move water from one area to another.

Animal Spot

This exhibit uses intriguing specimens from Cincinnati Museum Center's collections to teach children how each animal is unique to its environment. Touch a cast of an elephant's skull, feel a real dinosaur fossil, finish a three-layer fish puzzle, observe live fish and use interactives to explore how animals move, "dress" and eat.

Children Just Like Me

We present life-size photos and representations of homes of children from around the globe. Meet eleven children and their families, houses, pets and friends. Play with their toys, see their schoolwork or play an instrument from around the world. Focus on the commonalities that all cultures share, as well as those that make each unique.



Explore the Museums

Duke Energy Children's Museum continued...

Kids at Work

A construction site that includes buildings and other construction projects. Build your own Duplo or waffle-block constructions, use shovels and a crane to move rocks or build a catenary arch and see how simple shapes work together to make more complex structures.

Energy Zone

Ball-propelling stations offer opportunities to test cause and effect relationships, energy forces and simple and complex machines. Each station offers a chance to analyze which path a ball must take to reach its destination and what simple machines or energy forces help get it there. If you hear a bell-watch out!-it's time for the balls to come falling down!

The Woods

An adventure-based wilderness that contains a three-story tree house, underwater tunnel and crawling tubes that encourage children to challenge their physical abilities and use their imaginations. Explore a cave, follow animal tracks, climb a rock wall and see hidden treasures in the layers of the earth. Be sure to complete the treasure hunt!

Little Sprouts Farm

Our "farm" designed for infants and toddlers up to 4-years-old and their caregivers. The exhibit abounds with developmentally appropriate activities that engage the senses, encourage physical development and stimulate thinking skills. Due to the intimate nature of this exhibit, *Little Sprouts Farm* is not available to groups.



Museum of Natural History & Science

Explore interactive exhibits on the science and history of life on earth, migration and extinction and our new hands-on science space, *LITE Lab*, where “Science is Exploding!” Exhibits are complimented by our live bat flight demonstrations, floor programs on animals in nature and current science topics, collecting and cleaning fossils and a natural trading post.

LITE Lab*

(Learning, Innovation, Technology and Education Laboratory)

The science lab where “You Do the Science!” Students will use creative thinking and problem-solving skills to solve hands-on, inquiry based science experiments and challenges individually or in teams. *LITE Lab* classes will feature concepts of biology, chemistry, physics, sustainability and STEM.

Monday through Friday, 10 to 10:45 a.m. and 11 to 11:45 a.m. Please refer to page two for pricing. **Lab can be booked for your entire class!!*

Nature's Trading Post

Encourage exploration and stewardship of the natural world through respectful observation and responsible collecting. When booking your field trip, inform our staff if your group is interested in trading.

Pathways to Change

Focus on the symbiotic relationship that we share with the environment around us. Journey through time from the Fort Ancient period through four different cultural periods to the 1990s.

Preschool Sandplay

This exhibit is designed for children 5 years-old and younger, accompanied by a parent or caregiver. This large sandplay area has a desert theme and offers developmentally appropriate activities and a variety of early childhood learning experiences. Look for bilingual programming the first and third Saturday of every month.

Earth Stories

An audio-exhibit that provides a behind-the-scenes peek at the collections and curatorial process.

Explore the Museums

Museum of Natural History & Science continued...

Earth Works

Our interactive computer-generated video exhibit that takes visitors on a virtual guided tour of the ancient earthwork complexes that once stood throughout the Little Miami Valley in southwest Ohio.

The Cave

Explore 500 feet of darkened passageways. The beginner's trail is wheel-chair accessible and provides lookout points to the lower advanced trail. Highlights of the advanced trail include a waterfall, underground stream, formation chamber and the bat chamber, home to the Museum's own Big Brown Bat colony!

The Science of Mummies

See how science unravels the story of Umi the mummy of a young Egyptian boy. Learn about the elaborate painted cartonnage wrapped around his body and the 24 amulets hidden within the wrapping, revealed by CT scans taken at the UC College of Medicine/UC Physicians-Radiology.

Cincinnati's Ice Age

Witness the Tri-State as it appeared 19,000 years ago. Interactive exhibits help students discover clues about the Ice Age. The Glacial Geology Room features an interactive stream table and other activities.

Paleo Lab

Watch on closed-circuit TV monitors as staff clean and prepare dinosaur bones and other items collected on recent museum digs.

Lost Voices

Meet some of the marine, flying and land-dwelling animals that lived during the Mesozoic Era. Prized specimens include a Pterosaur skull and wing and the only complete Apatosaurus skull.



All of our on-site museum exhibits and traveling programs are aligned with Ohio, Kentucky and Indiana content standards. See the following charts or visit cincymuseum.org/standards for a sampling of curriculum alignments.

Programs-On-Wheels Science

	Earth & Space Sciences	Life Sciences	Physical Sciences	Science and Technology	Scientific Inquiry	Scientific Ways of Knowing
3...2...1... Blast Off!	●	●	●	●	●	●
Coral: A Colorful Community	●	●	●		●	●
Dino Dig		●			●	●
"Egg"-cellent Eggs		●			●	●
From Backyard to Barnyard		●			●	●
How Does Your Garden Grow?	●	●	●		●	●
Our Five Senses		●	●		●	●
Snug as a Bug		●	●		●	●
Stuffee the Amazing Anatomy Doll		●	●		●	●
Tall Tails		●			●	●
Digging for Dinosaurs	●	●	●		●	●
Incredible Insects!	●	●	●		●	●
The Reasons for the Seasons	●	●	●		●	●
Awesome Animal Adaptations!	●	●	●		●	●
Bats!	●	●	●		●	●
Your Heart, Your Blood, Your Health		●	●	●	●	●
Wild about Animals		●			●	●
Wonders of Weather	●		●		●	●
Tour the Solar System	●		●	●	●	●
Experimenting with Physical Science	●		●	●	●	●
Taxonomic Detectives		●	●		●	●
Chemistry in Your Hands	●		●	●	●	●
Thinking Green?	●	●	●	●	●	●
ABC: Arches, Bridges & Construction	●		●	●	●	●
Geology Rocks!	●		●	●	●	●
Forensics: The Science of Crime	●	●			●	●

Learning Labs Science

Block By Block			●	●	●	●
Meet Stuffee		●			●	●
My Rainforest Adventure	●	●			●	●
This Little Dino		●		●	●	●
Will It Float?			●	●	●	●
Cave Dwellers		●	●		●	●
Dino Discovery		●	●	●	●	●
Simple Machines			●	●	●	●
Be a Rock Star	●	●	●		●	●
Forces of Nature	●	●	●		●	●
Toying with Physics	●		●	●	●	●
Be a Space Ace	●	●	●	●	●	●
STEMing It!	●	●	●	●	●	●

Chart Key ● K-2 ● 3-5 ● 6-8 ● 9-12

Programs-On-Wheels Social Studies

	History	People in Societies	Geography	Economics	Government	Citizen Rights & Responsibilities	Social Studies Skills & Methods
A Cultural Experience		●	●			●	●
One World, Many Cultures		●●	●●			●	●●
The Impact of Inventions	●●	●●	●●	●●		●●	●●
Transportation Transformations	●●		●●	●●	●●		●●
When Two Worlds Met	●●	●●	●●	●●	●●	●	●●
Business Beginnings	●●	●●	●●	●●		●●	●●
Lotions, Potions & Strange Notions	●●	●●	●●	●●		●●	●●
Lewis & Clark	●●	●●	●●	●●	●●	●●	●●
Liberty on the Border	●●	●●	●●	●●	●●	●●	●●
Walking City	●●	●●	●●	●●	●●		●●
Underground Railroad	●●	●●	●●	●●	●●	●●	●●

Learning Labs Social Studies

Let's All Celebrate	●	●					●
Cincinnati In Motion	●●		●●				●●
Mind Your Money (1 - 3)				●●			●●
Welcome to My Home		●	●	●			
Life on the Ohio River	●	●	●				
Uncovering Egypt	●	●					●●
On the Trail with Lewis & Clark	●●		●				●●
Native American Lifestyles	●●	●●	●●	●			●
Coming to America	●●	●●	●				●●
Mind Your Money (4 - 8)			●	●●			●●
Cincinnati 28	●●	●●	●			●	●●●
Lewis & Clark: Meet the Press	●●		●●				●



Chart Key ● K-4

● 5-8

● 9-12

Programs-On-Wheels
Science

	Science as Inquiry	Physical Science	Life Science	Earth & Space Science	Science & Technology	Personal & Social Perspective
3...2...1... Blast Off!	●	●	●	●	●	●
Coral: A Colorful Community	●	●	●	●	●	●
Dino Dig	●		●	●		●
"Egg"-cellent Eggs	●	●	●			●
From Backyard to Barnyard	●		●			●
How Does Your Garden Grow?	●	●	●			●
Our Five Senses	●	●	●			●
Snug as a Bug	●		●			●
Stuffee the Amazing Anatomy Doll	●		●			●
Tall Tails	●		●			●
Digging for Dinosaurs	●		●	●	●	●
Incredible Insects!	●●		●●			●●
The Reasons for the Seasons	●●	●	●●	●●		●●
Awesome Animal Adaptations!	●●		●●			●●
Bats!	●●●		●●●			●●●
Your Heart, Your Blood, Your Health	●●		●●		●●	●●
Wild about Animals	●		●			
Wonders of Weather	●	●		●	●	●
Tour the Solar System	●●	●●	●	●●	●●	●●
Experimenting with Physical Science	●●	●●			●●	
Taxonomic Detectives	●●		●●			●●
Chemistry in Your Hands	●●	●●		●	●	●
Thinking Green?	●	●		●	●	●
ABC: Arches, Bridges & Construction	●	●			●	●
Geology Rocks!	●●	●●		●●	●	●●
Forensics: The Science of Crime	●		●			●

Learning Labs
Science

Block By Block	●	●				
Meet Stuffee	●		●			●
My Rainforest Adventure	●		●	●		
This Little Dino	●		●	●		
Will It Float?	●	●				
Cave Dwellers	●		●			
Dino Discovery	●●	●●	●			
Simple Machines	●	●			●	
Be a Rock Star	●●	●●		●		
Forces of Nature	●●	●		●●	●	●●
Toying with Physics	●●	●●				
Be a Space Ace	●	●		●	●	
STEMing It!	●●	●	●●	●●	●●	●

Chart Key ● K-4

● 5-8 ● 9-12

	Civics	Economics	Geography	U.S. History	World History
Programs-On-Wheels					
Social Studies & History					
A Cultural Experience			●	●	
One World, Many Cultures			●	●	
The Impact of Inventions	● ●	● ●	● ●	● ●	
Transportation Transformations		● ●	● ●	● ●	
When Two Worlds Met	● ●	● ●	● ●	● ●	
Business Beginnings		● ●	● ●	● ●	
Lotions, Potions & Strange Notions			● ●	● ●	
Lewis & Clark		● ●	●	●	
Liberty on the Border	●	● ●	● ●	● ●	
Walking City		● ●	● ●	● ●	
Underground Railroad	● ●	● ●	● ●	● ●	●
Learning Labs					
Social Studies & History					
Let's All Celebrate					
Cincinnati In Motion			●	●	
Mind Your Money (1 - 3)		●			
Welcome to My Home			●		
Life on the Ohio River		● ●	● ●	● ●	
Uncovering Egypt			●		
On the Trail with Lewis & Clark	● ●	● ●	● ●	● ●	
Native American Lifestyles		●	●	● ●	
Coming to America	●	●	● ●	● ●	
Mind Your Money (4 - 8)		● ●	●	● ●	
Cincinnati 28		● ●		● ● ●	
Lewis & Clark Meet the Press	●		● ●	● ● ●	

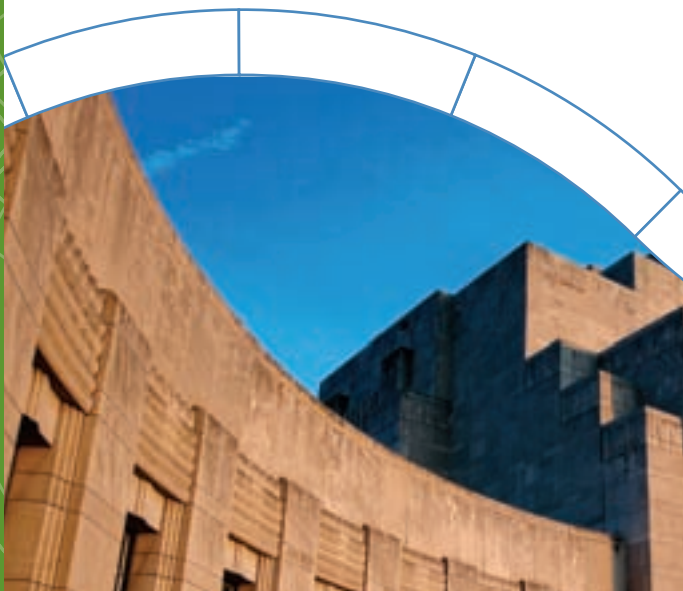


Chart Key ● K-4

● 5-8

● 9-12

Cincinnati History Museum

Social Studies & History

	Civics	Economics	Geography	U.S. History	World History
Cincinnati in Motion		●●●	●●●	●●●	
Cincinnati Goes to War		●●●	●●	●●●	●●
Early Settlement		●●●	●●●	●●●	
Machine Tools		●●	●●	●●●	
Queen City of the West		●●●	●●●	●●●	
La Belle Riviere		●●●	●●●	●●●	

Duke Energy Children's Museum

Science

	Science as Inquiry	Physical Science	Life Science	Earth & Space Science	Science & Technology	Personal & Social Perspective
Children Just Like Me			●		●	●
Kid's Town		●				●
Kids at Work	●	●		●	●	●
Energy Zone	●	●			●	●
Woods			●	●		●
Animal Spot			●	●	●	●
Water Works	●	●	●	●	●	●

Museum of Natural History & Science

Science

	Science as Inquiry	Physical Science	Life Science	Earth & Space Science	Science & Technology	Personal & Social Perspective
L.I.T.E. Lab	●●●	●●●	●●●	●●●	●●●	●●●
Pathways to Change	●●	●	●●	●●●	●●●	●●●
Nature's Trading Post			●	●●●	●	●●
Earth Stories			●	●●	●●	●
The Cave	●		●●			
Space			●●	●●		●
Lost Voices			●●●			●
Glacial Geology		●●●		●●●		
Ice Age	●●		●●●	●●		●●
Dino Hall	●●		●●●	●		●●
The Science of Mummies	●●				●	





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