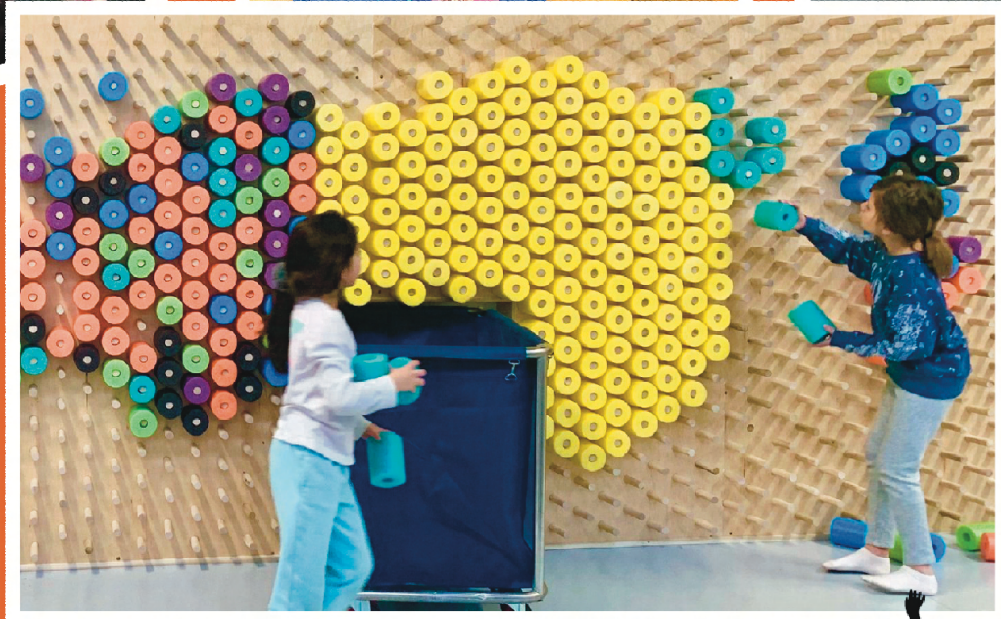


EDUCATOR'S GUIDE

Extend classroom learning with fun and educational
Hands-On STEAM experiences for your students!



WESTCHESTER CHILDREN'S  MUSEUM

EDUCATIONAL PHILOSOPHY

Westchester Children's Museum strives to be a vibrant, interactive learning space welcoming children, their schools, and families to nurture curiosity, enhance knowledge, and ignite imagination through creative hands-on exploration. Research shows that children learn best, retain more content, and build mastery when having fun, actively discovering their environment, and engaging in playful explorations with others.

All School Programs content align with Next Generation Science Standards, Common Core Math, and ELA learning standards

Hands-On STEAM Workshops

ART TO ANIMATION

Students learn about the evolution of art to animation, exploring the scientific principles and technology. Activities include creating a narrative through images and making early animation devices, like zoetropes and thaumatropes, using the phenomena of persistence of vision.

LIGHT & SOUND

Students explore how vibrations make sound, use prisms to discover the light spectrum and compare transparency, translucence, and opacity. Activities teach about how sound is produced and travels, how light forms images, and how light and sound move as waves.

STEAM FAIRY TALES

Students use STEAM principles to tackle challenges inspired by classic fairy tales like *Goldilocks and the Three Bears*, *The Wizard of OZ*, *Rapunzel*, and *Three Little Pigs*. Activities include designing creative engineering solutions to fix the storybook characters' problems.

ENERGY & MAGNETS

Students learn how humans have been connected to the energy of the natural world for centuries, like using lightning strikes and windmills. Activities examine magnetic attraction and repulsion and dive into the future of energy by powering a race car with a real solar cell.

SPACE EXPLORATION

Students learn about humanity's explorations of our Moon, Mars, and the Universe beyond. Activities include designing and launching rockets, creating patches for NASA missions, crafting mock moon craters, making nebula-inspired art, and playing galaxy-themed games.

PRESCHOOL

KINDERGARTEN - 2ND

3RD - 5TH GRADE

Hands-On STEAM Workshops are available and adapted to these age-bands to thoughtfully honor and complement the different Ages & Stages of Child Development from Toddlers through 5th grade.

KIDS CHEMISTRY

Students will make observations using sight and smell, discover the states and characteristics of matter, and explore chemical reactions found in everyday life. Activities include experiments applying chemistry to the world around them - from their kitchen, to art, to forensics.

ENVIRONMENTAL EXPLORERS

Students embark on a tour around the Earth to various climates and biomes, learning about how water cycles throughout the world's habitats. Activities can include recreating the work of nature's greatest animal engineers and discovering hidden crystals inside a geode.

HISTORIC TECHNOLOGY & SIMPLE MACHINES

Students will explore the evolution of technology and the physics principles behind them. Activities identify simple machines, test ancient and medieval inventions like catapults and DaVinci's tech, and tinker with historical toys that paved the way for visual animation.

CREATE ART WITH MATH

Students learn about the role visual perception plays in famous works of art, examining the use of lines to illustrate movement and sounds. Activities include drawing pictures using simple geometric shapes, expanding into intricate mathematical patterns to create images.

BUILDING STRUCTURES

Students will measure the world around them by using both standard units of measurement as well as everyday objects. Activities apply the engineering design process to complete structure building challenges, thinking through gravity, stability, and balance.

WIND & FLIGHT

Students dive into how artists depict wind through color, shapes, and movement. Activities use creative anemometers to measure moving air and apply the principles of flight by constructing paper planes and recycled-material hovercraft, testing them in the currents of our wind tubes.

YOU VISIT THE MUSEUM

Field Trip Experience

90 mins of museum exploration facilitated by our Museum Educators

1:6 chaperone to student ratio required

\$13 per student / \$7 per adult

Add on Hands-On STEAM Workshop

Museum Educators lead your choice of 30-minute Workshop during your visit

1st class **\$175**

Additional classes **\$75 each**

THE MUSEUM VISITS YOU

Our Museum Educators can also bring our fun and innovative Hands-On STEAM Workshops to schools and events. These activities encourage creativity, problem-solving, and collaboration - perfect for impactful learning through play.

In-School Workshops

30 mins to 1 hr event

\$295 per classroom/up to 30 students

Special Events Festivals, community days, and fundraisers

2 hour event **\$295**

Additional hours **\$150 each**

School STEAM Nights

10 - 20 portable exhibits and activities

2 hour event **\$800**

Additional hours **\$300 each**

STEAM Series

Discounted rate for a series of 10+ programs in your school, camp or after-school program

WESTCHESTER CHILDREN'S  MUSEUM

For bookings or questions: EducationandPrograms@discoverWCM.org

