VIRTUAL OPPORTUNITIES 2020/2021

The Maryland Science Center's Virtual Experiences Guide
Virtual In-Classroom or Distance-Learning Programs

All planetarium programs are presented live via Zoom. Alternate platforms may be available. Dinosaur program utilizes a unique link. Teachers must have internet access and be able to project feed for in classroom programs. Each program is $225 unless stated otherwise. Payment is due one week in advance.

Exploring Planets
Grades: 3-5
Capacity: 30 students
Length: 45 minutes
Students will:
- Fly through the solar system to investigate features of planets and dwarf planets
- Explore characteristics of a planet
- Learn about current space missions

Dinosaur Mysteries Virtual Tour
Grades: K-2, 3-5
Capacity: 30 students
Length: 45 minutes
Students will:
- Take a virtual tour of the Dinosaur Mysteries exhibit led by our very own paleontologist
- Learn about how we find fossils and what they tell us about dinosaur life cycles, diet, behavior and the ecosystems in which they lived
- After the pre-recorded tour, do two hands-on activities in your classroom to explore paleontology further

Shapes in the Sky
Grades: 1-2
Capacity: 30 students
Length: 35 minutes
Students will:
- Look for familiar shapes among the stars in the sky
- Imagine and create personal star patterns
- Observe patterns of the motion of stars and the Moon

The Sky Tonight
Grades: 3-5, 6-8
Capacity: 30 students
Length: 45 minutes
Students will:
- Observe seasonal constellations of the night sky
- Find and identify stars, planets, and phases of the Moon
- Learn how to use a starmap for backyard stargazing

Phone a Reservationist at 410.545.5929
VIRTUAL EXPERIENCES FOR SCHOOL GROUPS

VIRTUAL IN-CLASSROOM PROGRAMS

All enrichment programs are presented live via Zoom. Alternate platforms may be available. Teachers must have internet access and be able to project feed. Materials kit will be sent for 30 students and one instructor. Each program is $225 unless stated otherwise. Payment is due one week in advance.

Radical Reactions
Grades: 1-2
Capacity: 30 students
Length: 45 minutes
Students will:
• Use real science tools to run experiments
• Learn the science behind various chemical reactions
• Explore simple chemistry

Soap Bubble Math
Grades: 2-3
Capacity: 30 students
Length: 45 minutes
Students will:
• Participate in a mathematical problem-based learning experience
• Gather and share data through group participation
• Design a question and procedure, guided by standards, to determine measurable information about soap bubbles

What is That?
Grades 4-8, 9-12
Capacity: 30 students
Length: 45 minutes
(Materials for this program will not be sent. Teachers will be instructed on how to make the necessary materials which should take less than 15 minutes.)
Students will:
• Use the scientific process to investigate mystery boxes
• Make hypotheses based on sensory perceptions and memories
• Defend their hypothesis using empirical evidence

Ziplock Chemistry
Grades: 3-8
Capacity: 30 students
Length: 45 minutes
Students will:
• Conduct chemical reaction experiments inside plastic bags
• Uncover how matter and energy are transformed

OUT-OF-SCHOOL TIME PROGRAMMING

This program allows students to explore Maryland Science Center exhibits inside the classroom through pre-recorded video components, as well as instruction for related hands-on science activities. Teachers must have internet access and be able to project video. Students should have access to the classroom supplies required for activities on provided materials list.

Newton’s Alley Virtual Tour
Grades: 3-6
Capacity: 30 students
Length: 45 min or 90 minutes
Pricing for this program is $225 for a 45 minute tour and $450 for a 90 minute tour.
Students will:
• Explore scientific concepts of physics covered in our Newton’s Alley exhibit: air pressure, centripetal force, distribution of mass, momentum and energy transfer, pulleys, or sound waves
• Engage in hands-on activities related to our exhibit components
• Make informed scientific arguments based on the activity result

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