



VIRTUAL OPPORTUNITIES 2020/2021



The Maryland Science Center's Virtual Experiences Guide



VIRTUAL EXPERIENCES FOR SCHOOL GROUPS

Live Turnkey Science Block Content.

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

**NEW
THIS YEAR**



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



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

**NEW
THIS YEAR**

*Don't see
what you need?
Just ask.*

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 Newtons 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



601 Light Street at Baltimore's Inner Harbor

www.marylandsciencecenter.org

A 501(c)3 nonprofit organization operating in the state of Maryland